Monitor

REGISTERED TRADE-MARK

GRAIN CLEANING AND SPECIAL MACHINERY

HUNTLEY MANUFACTURING CO.

MONITOR WORKS

TRADE MARK

SEPARATORS
Section of Catalog No. 58

Catalog No. 56

Monitor
REGISTERED TRADE MARK

OUR CREED

EVERY machine turned out of our factory is built with the express purpose of perpetuating the reputation and distinction accorded our "Monitor" machines in the past.

HUNTLEY MANUFACTURING CO.
MONITOR
WORKS
BROCTON, N.Y.

Established 1879

Monitor

REGISTERED TRADE-MARK

CLEANERS *and* GRADERS

FOR

GRAIN, SEEDS, PEAS, BEANS

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Edited by: Brian D. Szafranski
Elma New York USA

Please note: This is an abbreviated low-quality catalog published by the Huntley Mfg. Co. in about 1927 after their move to Brocton NY.

In this abbreviated catalog the following pages are omitted:
78-to-98; 102, 103, 104, 106, 107, 110, 111, 115, 116, and 117

Catalog No. 56 was originally published in about 1917 when the Huntley Mfg. Co. was located in Silver Creek New York USA.

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HUNTLEY MANUFACTURING CO.

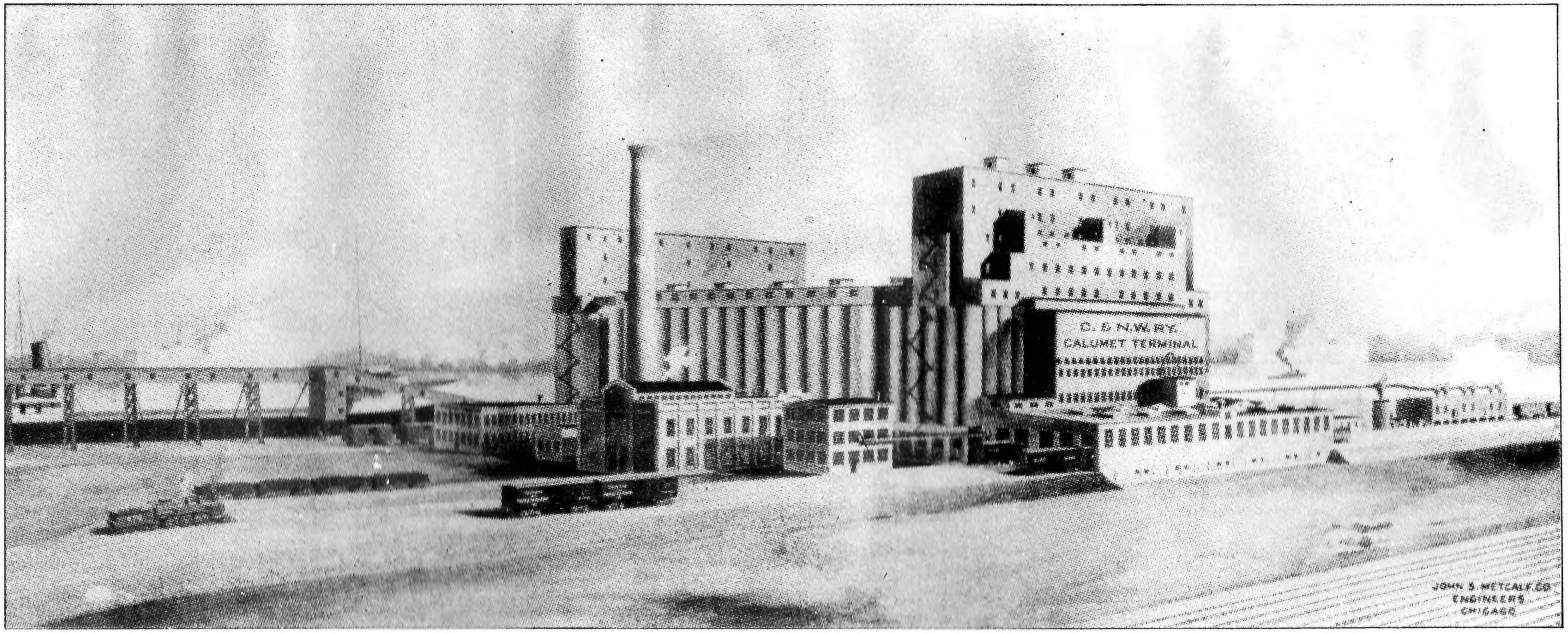
THE WORLD'S LARGEST MANUFACTURERS OF HIGH GRADE GRAIN AND SEED CLEANING MACHINERY

BROCTON, N. Y., U. S. A.
(Formerly Silver Creek, N. Y.)

CABLE ADDRESS
"HUNTLEY"

"Separators" Catalog No. 56

Established 1879



THE WORLD'S LARGEST GRAIN ELEVATOR

The largest order recorded for Grain Cleaning and Oat Clipping Machinery was awarded to us—"Monitors," for this recently constructed, ultra-modern design, largest-in-the-World Grain Elevator, the C. & N. W. R'y "Calumet Terminal," at South Chicago, Ill., operated by the Armour Grain Company. Present capacity 8,000,000—ultimate capacity 10,000,000 bushels. This gigantic Elevator reflects the combined master efforts of experts internationally acknowledged as leaders in large-capacity Elevator designing, building and operating. In the selection of materials and equipment a buying policy that safeguarded every interest of this titantic enterprise was followed—the purchase of "Monitors" *exclusively* was a decision taken after a year's deliberation and investigation of leading makes of Cleaners and Clippers. This Elevator has a maximum cleaning and clipping capacity of 2,250,000 bushels for a 24-hour day—the work handled by "Monitor" Oat Clippers, "Monitor" Receiving Cleaners, and "Monitor" Screenings Separators. In the dust house 8 "Monitor" Packers are used. Each "Monitor" in this Elevator is heavy-service, fire-proof construction—each embodies exclusive "Monitor" features typifying the most advanced, *test-proven* improvements in Machinery of their respective kind. More than ever, "Monitors" continue to be the Machines *supreme*—this "Calumet Terminal" order firmly establishes the fact.

America's Best

Monitor
REGISTERED TRADE MARK

SINCE 1879

"MONITOR"—a trade mark, upon which rests distinction and honors unearned by and unbestowed upon any other make of Grain Cleaners, whatsoever—a mark of genuine superiority universally accepted as the safest and broadest standard by which to compare all other Grain Cleaning Machines. And the result of such comparisons? The answer is impressive—it stands out boldly in the World's largest, most completely and expertly equipped Grain Elevators of modern construction, of which not less than 80% are using "Monitors" *exclusively*.

We are the World's largest manufacturers of high-grade, high-efficiency Grain Cleaning Machinery—increasingly so. The reputation, facilities and nearly forty years' old organization back of "Monitors" is a broad, secure warranty of satisfaction for every customer. As each "Monitor" performs by statements herein, so has it performed under all conditions of service for many others—our customers' advantage of our policy of not cataloging a "Monitor" until *after* it is a fully demonstrated, endorsed success—keep this in mind, reader.

"Monitor" inventors and engineers have gained International honors as leaders in discovering and perfecting new, beneficial improvements in Grain Cleaning Machinery—their achievements in this line of effort come from an experience taken in a broader field than others have covered. Our manufacturing facilities are unsurpassed, if indeed, they are equalled. Materials used are the best obtainable—carefully selected for quality and strength. Workmanship, fit and finish are of the highest standards—performed by skilled help under the direction of lifelong experts, who have a thorough knowledge of every requirement.

"Monitors" are sold squarely on merit—your order is solicited on that basis. We have unbounded confidence in the fitness, efficiency, dependability and gratifying economy of every machine herein listed—we await the opportunity of seeing that belief shared by you, as it is by thousands of enthusiastically satisfied "Monitor" users everywhere throughout the grain cleaning World.

Incontestable are the statements and claims as we have set them down on the following pages—they are based on authoritatively conceded facts—on World-wide demonstrated performance; we invite your most searching investigations.

HUNTLEY MANUFACTURING COMPANY

PROPR'S "MONITOR" WORKS

BROCTON, NEW YORK, U. S. A.

(Formerly at Silver Creek, N. Y.)

MEMBER NATIONAL ASSOCIATION OF MANUFACTURERS U.S.A.

THE Monitor GUARANTEE

EVERY "Monitor" listed in this catalog is guaranteed to be right in every respect: correct in design, unsurpassed in quality of materials, workmanship and finish and equal in performance to the claims set forth herein. Any defects in material or workmanship on our part will be promptly corrected by us on due notification, within one year from date of shipment.

ON TRIAL Monitor SHIPMENT

"MONITOR" purchasers anywhere in the United States have privilege of trial before acceptance. Under this arrangement the purchaser agrees to install the machine promptly upon arrival and set it into operation according to our directions when it is to operate in accordance with our established, printed claims. If for any reason it fails to do so we are to be notified at once with privilege of adjustment, or correction, whereby performance equals our claims—should the "Monitor" fail to do so we will accept its return, if carefully crated and returned to our factory in good condition.

TERMS Monitor DELIVERY

WE will ship to responsible parties anywhere in the United States on terms of 30 days net. Where satisfactory references of financial responsibility are not given our terms are part cash with order and balance as may be arranged by written agreement, duly approved by the home office.

AMERICA'S BEST BUILT **Monitor** SEPARATORS

HEAVY-SERVICE CONSTRUCTION

NO Grain Separators of American manufacture have heavier or more substantial construction than "Monitors"—certain unwarranted, misleading claims to the contrary notwithstanding. If you are to accept any one kind of service as a test for *proven* qualities of construction, then surely it must be the Terminal Elevators where severe and exacting performance is demanded, frequently on continuous day and night runs for long periods. In America's Terminal Elevators "Monitors" greatly outnumber all other makes of Separators, increasingly so—in them "Monitors" have *proven* their dependability and stability. The carefully selected materials, skilled workmanship, approved designing and our recognized expertness in proportioning weight and strength combine to insure rugged endurance most widely and convincingly demonstrated.

Main supporting frames—uncommonly heavy, of best quality, air-dried hardwood; machine mortised and tenoned—put together with heavy bolts having locked nuts and heavy washer under the head.

Shaking shoes—our inter-reinforced design, great strength and fine endurance qualities with lightest practicable weight.

All shafts—largest practicable size for the service required (none heavier), high grade steel, accurately machine sized.

Fans—our exclusive, large diameter, low speed, one-piece design.

All lumber—is thoroughly seasoned, selected stock; screws and bolts used to the exclusion of nails wherever practicable.

All castings—are high grade, gray iron—our own manufacture, each carefully tested.

Collars and pulleys—are machine faced—pulleys accurately balanced—collars are "safety" type.

Construction in general—numberless niceties of painstaking detail throughout—a gratifying combination of high grade manufacture and expert knowledge of providing for every requirement.

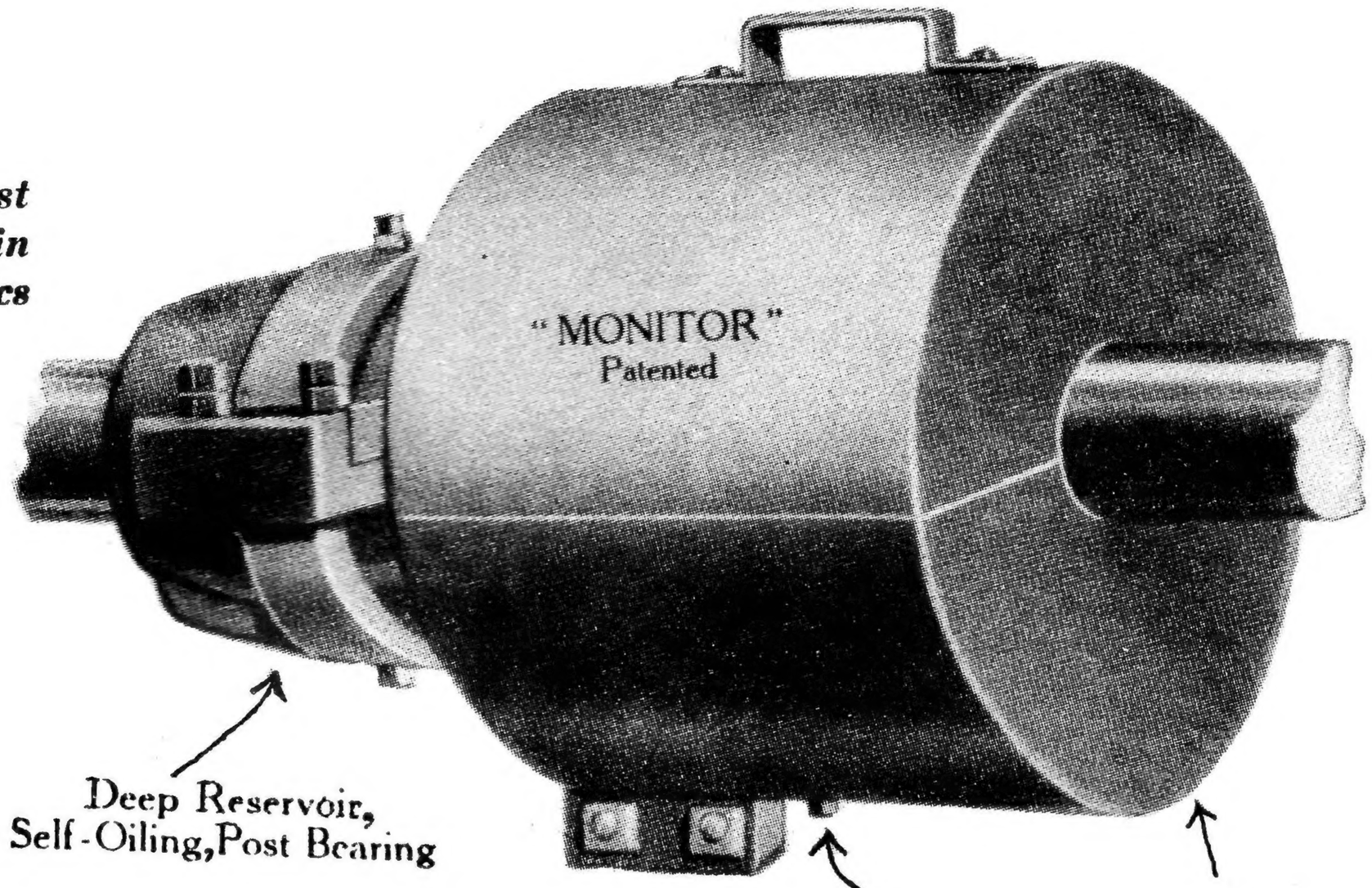
Finish—a pleasing feature of all "Monitors."

Eccentrics—see illustrations and descriptions, pages 6, 7 and 8.

Bearings—see illustrations and descriptions, pages 10 and 11.

Special features—see "Equipment" under each cut.

The World's first Disc Oiler for Grain Cleaner Eccentrics



Note. — Above — hood in place as in use.
Opposite — showing hood removed

(Patented)

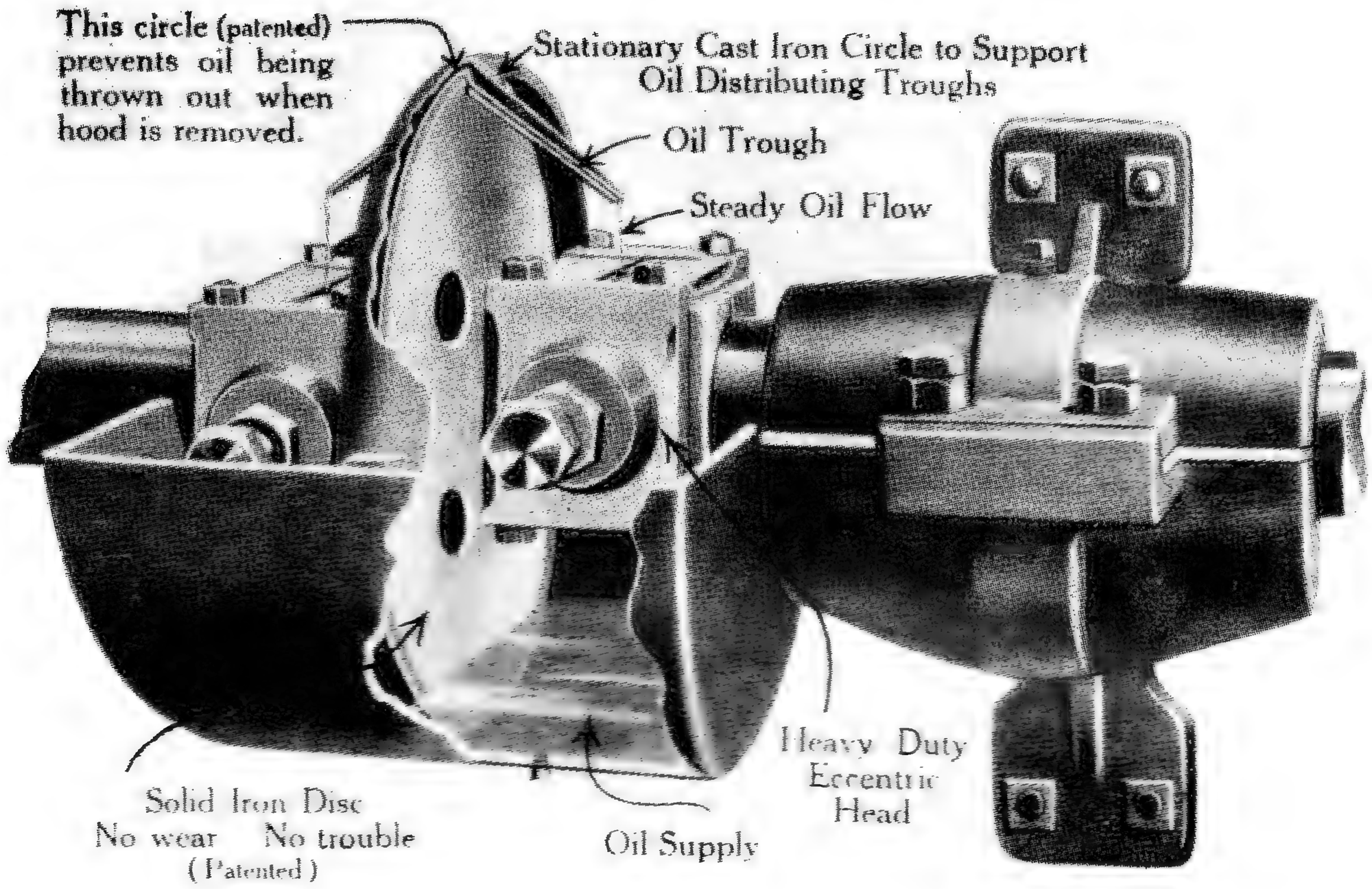
Monitor
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Automatic Disc-Oiling Eccentrics

DUST PROOF LEAK PROOF FIRE PROOF CARE PROOF
WEAR PROOF FOOL PROOF

TWO marvelously simple things—a plain iron disc and a circular iron band, neither subject to strain or wear, neither requiring adjustment or care —the discovery of their usefulness by a "Monitor" Inventor and their application to eccentric lubrication on "Monitor" Grain Cleaners—a brief history of the *first* centrifugal-action, mechanical oilers used for lubricating grain cleaner eccentrics. Free from an objectionable feature of any kind "Monitor" Disc Oilers have proven the greatest mechanical improvement in half a century of grain cleaner manufacture. The first "Monitor" Cleaners fitted with these Disc Oilers have been operating continuously nearly eleven years without a renewal or trouble of any kind—since then thousands of "Monitors" have been so equipped. Inasmuch as a grain cleaner is no stronger, or more dependable than the eccentrics which drive the shoes and as no other Separator has this "Monitor" principle of eccentric lubrication, carefully study the illustrations and compare our simple, efficient system of lubrication with any and all other methods.

As illustrations show, "Monitor" Disc Oilers are a wonderfully simple and reliable device. Only *one moving part* is used to obtain automatic oiling—the solid iron disc which will last a lifetime. Next observe the stationary, circular iron band with oil troughs attached—a "Monitor" patent; it serves perfectly as an oil distributor and, also, has this important advantage—all oil picked up by

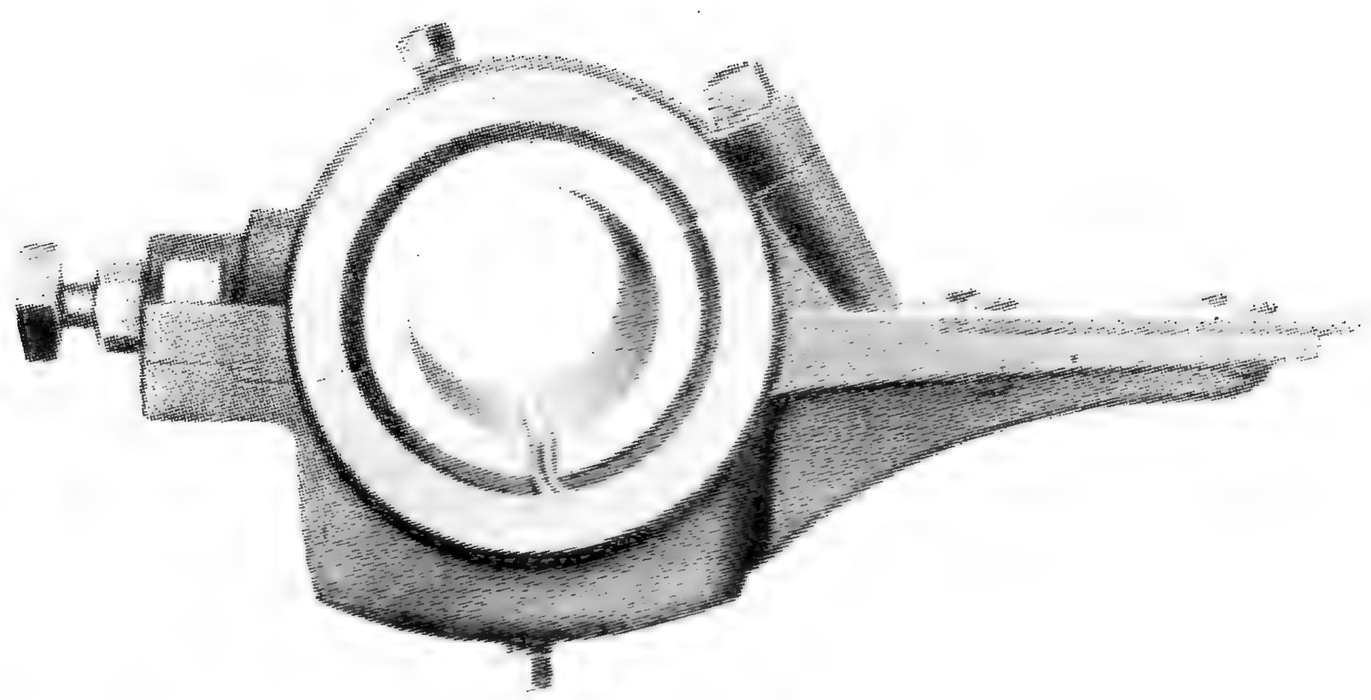


the revolving disc travels *inside* of this band. The reservoir hood is removed with perfect safety while the machine is in motion, as *no oil can be thrown out—an exclusive* "Monitor" advantage.

Notice the heavy construction of the two-piece, (adjustable) iron bound, bronze eccentric heads which have heavy lock nut for holding the large hexagon head, adjusting screw in position. The oiling disc you will see is located between the two eccentric heads—with every revolution of the eccentric shaft, the disc travels through the supply of oil in lower half of the heavy iron reservoir and oil is carried up to the stationary feed trough spreaders where the stream is divided—part flowing into each eccentric head. While machine is in motion a uniform stream of oil is steadily flowing through eccentric heads—this supply ceases automatically when power is thrown off. Outfit is housed in a heavy iron casing—dust and dirt cannot reach the eccentrics. Observe view at left, showing cover in position as when in use—removable by means of bale handle as shown.

A "Monitor" Disc Oiler user is immune from fire risk so common to many types of cleaners oiled by antiquated methods. Oil *cannot leak out*, nor is it *thrown out* when hoods are removed. Oil soaked floors, dangerous, and condemned by Fire Insurance Underwriters, are eliminated. With "Monitor" Disc Oilers, eccentrics are lubricated copiously, as a steady stream of oil travels through the heads, no attention required except to drain and re-fill reservoir six or seven times yearly. Another important advantage is the smoothness of eccentric motion resulting from the use of this device. Unduly worn, loose eccentrics which would impart an exaggerated motion to the shoes and destroy every possible means of obtaining uniform screen separations are unknown to the user of "Monitor" Disc Oilers.

"Ten times more lubrication with one-tenth as much oil"



SELF-OILING ECCENTRICS

CAPILLARY TYPE

"MONITOR" designers have long been recognized as leaders in advancing the science of grain separator lubrication. The eccentric head illustrated above is another of their many successes—the result of expert effort to produce a safe, practical and efficient self-oiler, embodying the capillary principle of lubrication. The cut plainly shows the heavy construction and simplicity of our exclusive design of eccentric head; this is standard equipment for all "Monitor" Separators not otherwise specified in this catalog.

Referring to illustration—you will observe the large reservoir underneath head—this carries oil supply ample for a considerable period of use. To fill, the oil feed plug at top of head is removed—to drain off used oil, plug in bottom of reservoir is unscrewed. A heavy wick is located between the two-piece bronze metal liners. This wick extends down into oil reservoir from which it feeds the oil onto shaft. This wick serves another and important purpose, as it acts as a filter—particles of sand or grit in the oil are caught at lower end of wick—consequently, there is no cutting or undue wear from gritty substances as frequently occurs with old style, open eccentric oilers. The two-piece liners are our own special alloy of bronze metal, much heavier than ordinarily used and having wider bearing surface; they are adjusted by means of heavy adjusting screw and locked into position with a heavy hexagon nut. Workmanship and fit are of the finest character.

Back of this capillary oiler are several years' service and hundreds of satisfied users. While we do not claim it is equal to "Monitor" Disc Oiling (pages 6 and 7), it is a superior "capillary" oiler in every particular.

Monitor
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TWO-OUTSIDE-FANS SUCTION

The World's first grain cleaner so built— a principle proven right by 30 years' of unparalleled success.

COMPENSATING AIR REGULATORS

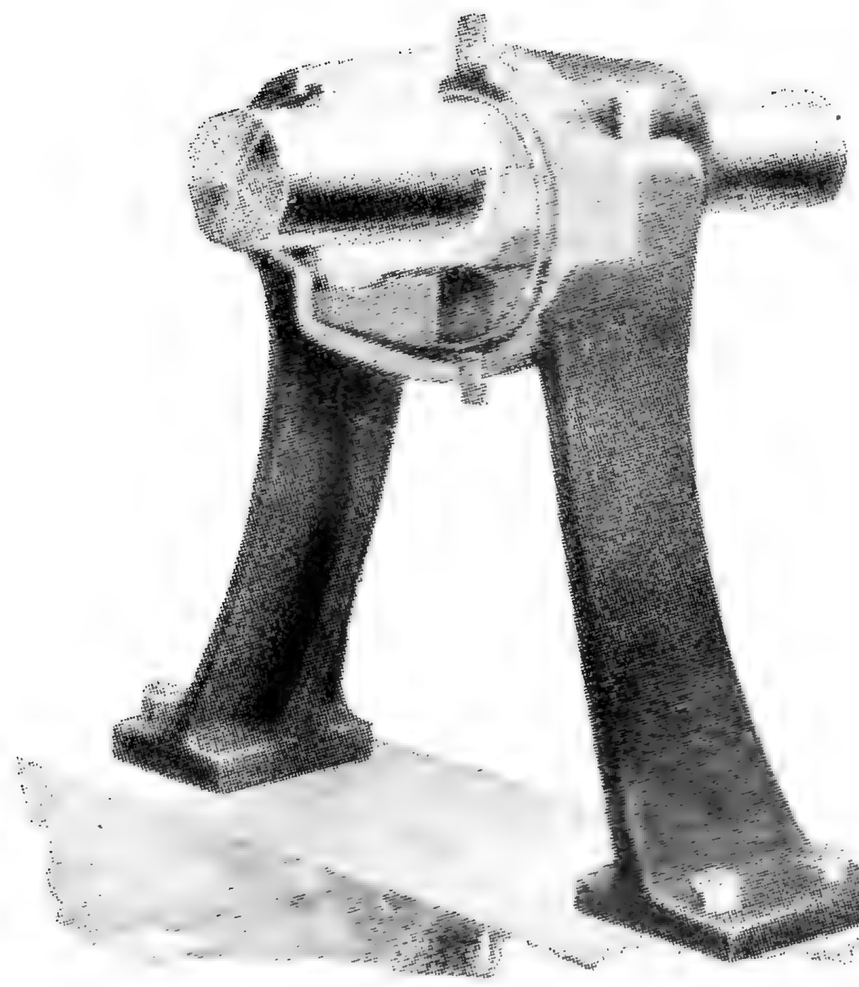
The first internal air equalizing regulators used in the manufacture of grain separators— a feature of first importance.

TWO-outside-fans air suction cleaning as applied to grain separators originated with us in 1887 and we are the only American manufacturers who have been consistently successful in demonstrating one fixed principle of fan location on a grain cleaning machine for that long period of time—*we have been right for 30 years.* Later we devised and perfected our exclusive, Internal Compensating Air Regulators, which enhanced two-fan-suction cleaning beyond compare and without which all "two-fan" cleaners are deficient where the finest definition in air separations is required.

All "Monitor" Separators have two large, low speed fans located outside of the large-area air expansion chamber. Large-area suction legs (known as first and second suctions) are *full width* of air expansion chamber. Inside the chamber and extending across from eye to eye of fans are two rows of adjustable, sliding valves, so placed that each set operates *independently* of the other —a decidedly important advantage. These valves, are used to equalize air currents and insure uniformity of fan suction lifting strength for every fractional part of the full width of both suction legs; the uniformity thus obtained is without equal in any other cleaner. The phenomenal discrimination in "Monitor" air suction separations is recognized and conceded by authorities everywhere to be unmatchable. As proof we cite the fact that 95% of the World's largest seed dealers are daily cleaning their costly, choice seeds, some weighing as light as 12 lbs. to the bushel, with "Monitor" Cleaners—regularly obtaining definition in air separations they have found it utterly impossible to produce with any other cleaner—such efficiency applied to grain cleaning work benefits the grain handler greatly. He obtains closer separations with a very considerable saving in shrinkage loss, as there are no "dead spots" where grain misses cleaning, no "over strong spots" where good grain will be lifted and carried with the screenings.

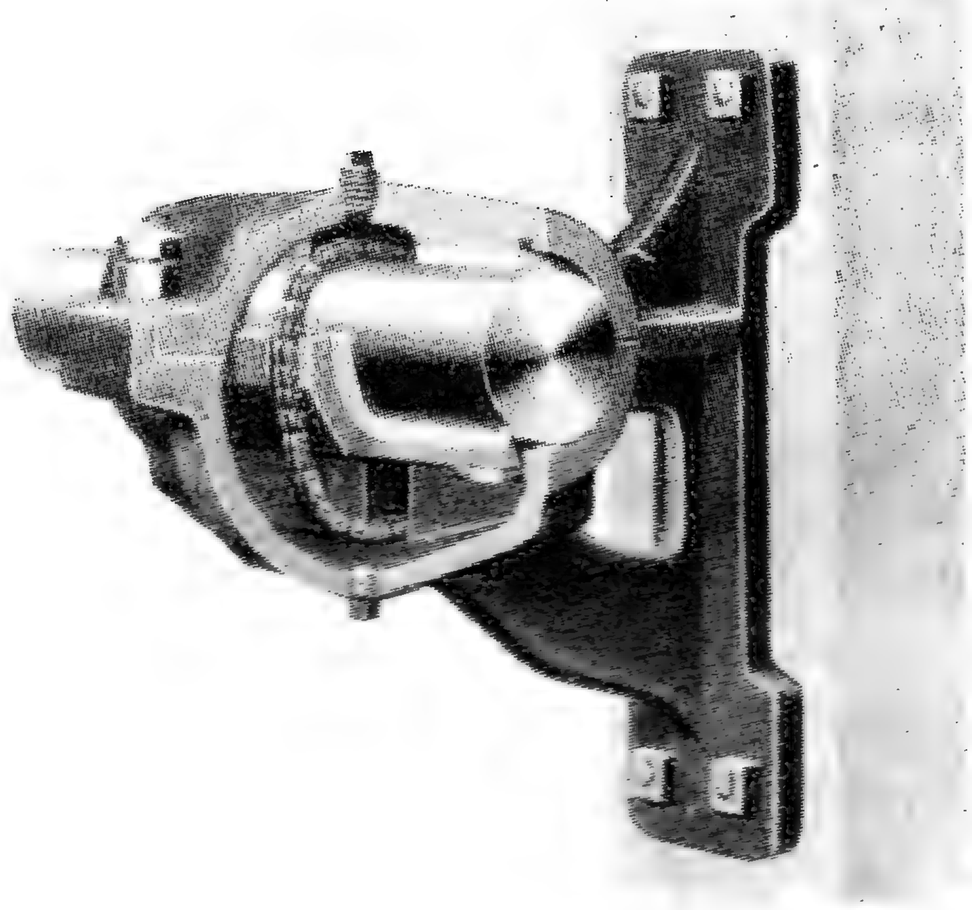
Other valves, slides and doors are provided—these to increase or decrease *volume* of air suction. They are easily accessible and enable the operator to control his aspirating work to a nicety. Note, however, they *are not* equalizers.

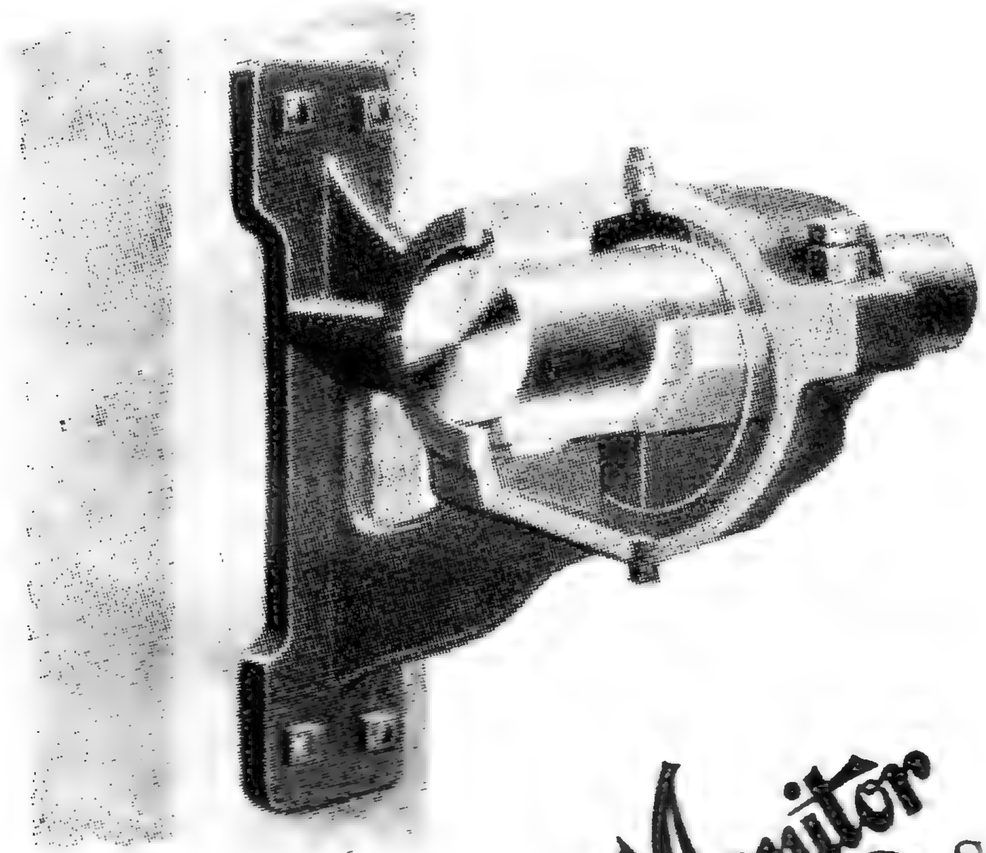
For 30 years our entire efforts have been concentrated in a constant betterment of one correct principle of air suction—we have developed an incomparably perfect standard for air grain cleaning—every "Monitor" Separator embodies it—*two fans, outside.*



"Monitor" heavy-service, dust-proof, deep-reservoir fan shaft bearing. Automatic lubrication is obtained by means of a ring oiler. Wide bearing surface and spacious oil reservoir are noteworthy features. Heaviest constructed, finest finished and fitted grain cleaner bearing manufactured.

Sectional view of a "Monitor" dust-proof, self-oiling bearing of the "chain" type—post bearing for eccentric shafts. Note flexible chain is used instead of ring. Observe threaded plugs, removable for draining and refilling these three styles of bearings.





Eccentric shaft post bearing—"ring" self-oiling, dust-proof type. Cut shows oiling ring, large capacity oil reservoir and heavy babbitted bearing surface—which on *all* "Monitor" bearings is at least three times the shaft diameter.

Monitor

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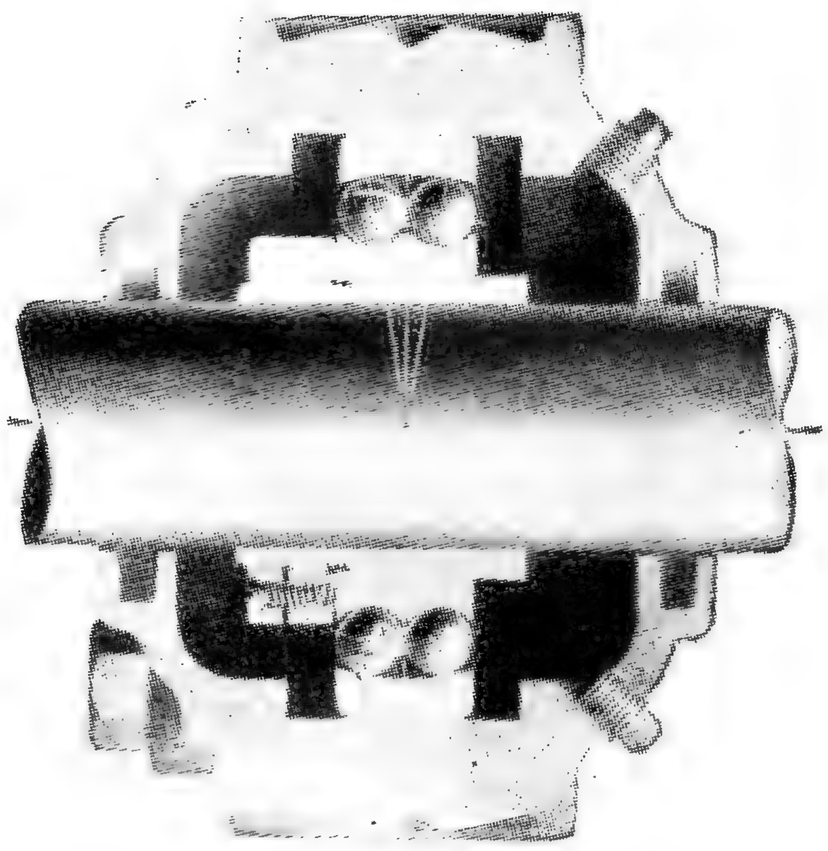
SELF-OILING BEARINGS

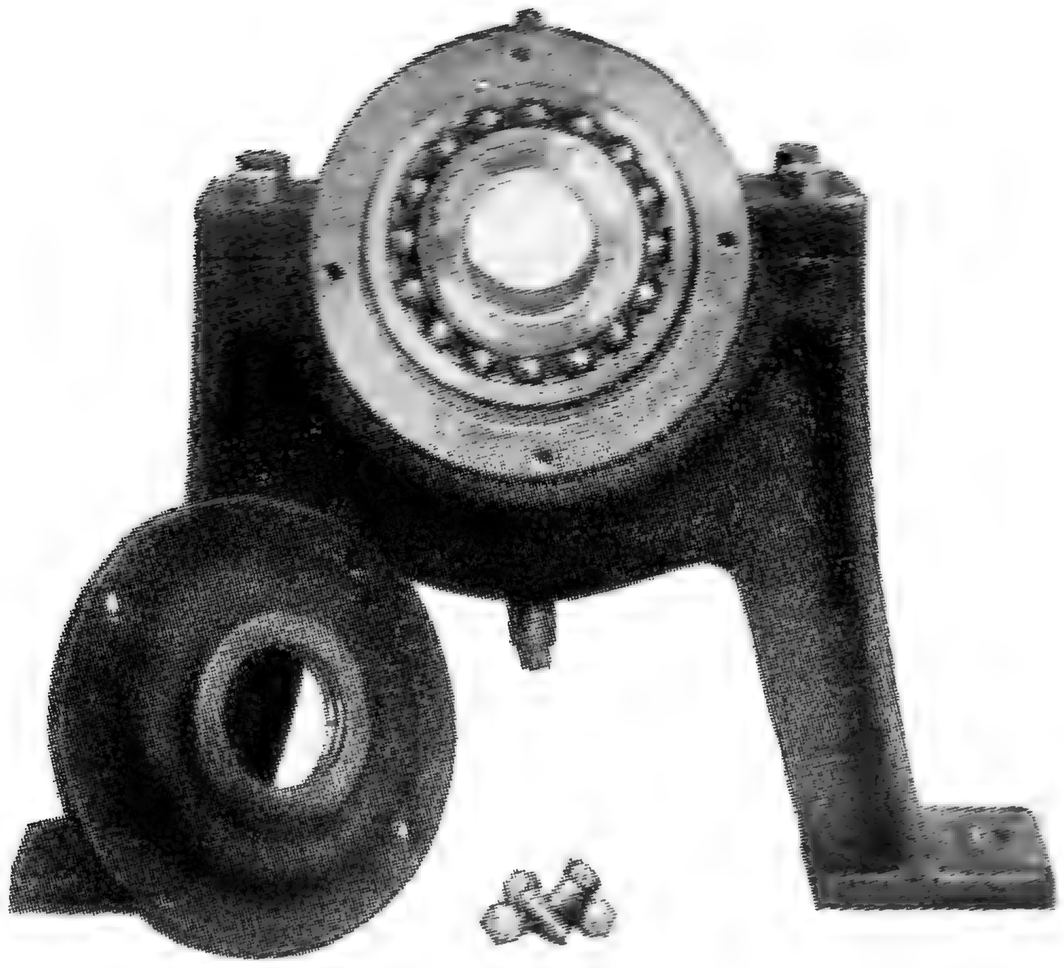
"RING" AND "CHAIN" TYPE

GRAIN Cleaner efficiency is governed largely by the service the bearings render. As an illustration of the care exercised to provide for "Monitor" users the utmost in dependable, economical and durable service we show our improved bearings—but one of the many hidden values "Monitors" possess. All "Monitor" bearings are fully exposed—fire risk is eliminated. All are dust-proof and leak-proof. Bearing surface, in width, is three or more times shaft diameter—ample for service of the most severe nature. No manufacturer is using heavier bearings, few, if any, are as heavy. Castings are our own make of high grade, gray iron, heavily lined with our special alloy anti-friction metal. Expert workmanship and finish combine to produce a bearing that will run cool and not cause trouble. Lubrication is at the choice of the purchaser—all "Monitors" are fitted with "ring" oilers unless otherwise specified—"chain" oilers at same price. Ball bearings, see opposite page—at extra charge, are furnished when desired.

"S. K. F." Ball Bearings are made of Swedish crucible steel, skillfully treated and unmatched for accuracy. The design of the bearing allows it to yield to shaft spring or misalignment that would instantly destroy any other bearing.

Other features of "S. K. F." Self-Aligning Ball Bearings are a saving of 60 to 80% of the power wasted by plain bearings; a saving of 90% on oil bills; long life and absolute freedom from wear, heating or trouble of any kind.





Our exclusive design of "fan shaft" Ball Bearing—illustration shows the uncommonly heavy, simplified construction. Ball race is supported by massive, one-piece yoke—to this is secured a dust-proof side plate. An outfit designed for hard usage, requiring the minimum of care. The ball bearings used are the well-known "S. K. F." Self-Aligning, Heavy-Duty Type.

Monitor BALL BEARINGS

POWER saving, given little consideration until recent years has become one of the most widely discussed subjects in modern machinery. Progressive grain dealers figure, and rightly so, that an investment in ball bearings of a really efficient kind will earn good returns on the money spent for such equipment. Then too, there are other important things to be considered; elimination of care and annoyance, and fire risk, economy in lubrication, etc. Not being manufacturers of ball bearings we will leave the wider discussion of their merits to those who make them and merely invite your attention to these facts: We build the supporting frames which carry the ball bearings and illustrations above show the best known make of heavy-duty ball bearings mounted in our exclusive "Monitor" design of bearing support. We have supplied hundreds of these with "Monitor" Separators and their successful use is proof of our claims that a stronger, finer fitted and finished bearing is not obtainable. Castings used are our own manufacture—high grade, gray iron accurately machined.

"RECEIVING" GRAIN CLEANERS

(Warehouse and Elevator Separators)
(Pages 15-17-19-21-23-25-27)

How They Operate

GRAIN is delivered into feed hopper and gravitates to automatic feeder in lower part; this feeder delivers the grain in a thin, even stream across the entire width of the first air suction leg—here the first air separation is performed. As the grain drops down the suction leg it passes through strong, sensitively controlled, currents of air created by and traveling upward to the fans, these draw off all immature grains, light impurities, chaff, dust, etc., carrying them into a settlings chamber where an intermediate separation takes place, heavier stock being purified and dropping into a *conveyor which discharges it at outside of machine; the dust and light chaff are carried on, reaching the fans, which blow them out.

The grain drops through the suction leg onto a distributing plate and thence to a "scalper" or roughing screen where stones, sticks, strings and coarse refuse are taken off. The grain passes through the holes in this screen to an adjustable spreading attachment which equalizes the stream, spreading it evenly across the entire surface of the second or xx "main" cleaning screen; coarse foreign matter, everything larger in size than the kernels of grain, travels on top of the screen, discharging at lower end and out to side of machine, while the grain passes through the screen perforations and falls upon the third or "cockle" and "seed" screen. Fine dirt, cockle and foul seeds pass through the small perforations in this screen and are spouted out underneath machine—the stream of grain travels over entire surface of screen, tailing off at lower end in an even stream through an adjustable gate into second air suction leg, where the second air cleaning is performed. The air currents to the fans draw off any remaining dust or chaff and the heavier of the impurities not removed by the first air separation—dust and chaff blown out of fans, heavier stock discharged from *conveyor at side of machine. After this aspiration the cleaned grain discharges from suction leg at a point close to the floor.

Drive, Fan and Screenings Discharge to Suit Location

*Conveyors under settlings chambers may be arranged to discharge at either side of machine as desired. Fan discharge can be changed from that shown in cuts—illustrations show rear, horizontal discharge of fans, as regularly built; this may be changed to upward discharge at any angle, or reversed and discharge out horizontally over front—see diagrams page 50. When necessary we can change the size of drive pulley from that shown in the tables; drive pulley can be placed at either side of machine, but must be on same side as conveyor discharge.

*Spouts on Style "F."
xx to "auxiliary" screen on Style "A"—thence to "main" screen.

Monitor
REGISTERED TRADE-MARK

"RECEIVING" GRAIN CLEANERS

Economy Demands Them—Why

THE proven best-by-widest-service answer to the increasingly insistent demand for high standards and low expense in receiving cleaning—"Monitors." In the quick, correct response to all those varying requirements met with in cleaning different lots of grain "Monitors" excel, widely. Pleasingly simple, get-at-able construction, preciseness of fit and adjustment give free, perfect controlled regulation—the operator works through the different ranges of receiving cleaning with surprising ease and pronounced success. He finds the "Monitor" gives him greater latitude in cleaning—large-area screen work most easily and quickly gauged to any desired standard, with results that outcompare what he previously considered satisfactory with other cleaners; air separations excelling in uniformity of definition his best efforts with previous used machines—he marvels at the control he so easily exercises over the air currents—the perfect response as he steps the valves up or down; the incomparable discrimination of "Monitor" air work is revealed by his inspection of the cleaner grain and the cleaner screenings, showing greatly lessened shrinkage—one more convert is added to those thousands, prominent grain dealers mostly, who sincerely believe "Monitors" the closest and most economical cleaning of all high-efficiency Separators.

Taking light power, less than other machines, quantity and character of cleaning considered, costing little if any more on first purchase, and much less to operate and maintain "Monitor" Separators are, as an investment, without a near equal—their net earning power justifies their purchase by every grain handler. In saying to you that "Monitors" will outlive years of tremendously severe service—systematize and economize cleaning to the utmost and simplify it surprisingly, we are merely recording what thousands of the World's leading grain dealers are acquainted with as demonstrated facts.

The seven types of "Monitors" illustrated pages 15 to 27 inclusive are the most commonly used of all "Receivers"—however, for various reasons, as hereinafter explained our "combined" and special corn, oats, barley and other models shown are preferable—all are true examples of incomparably perfect, thoroughly equipped Receiving Cleaners. Each has its advantages—each embodies widely, highly endorsed improvements that are of direct, pronounced benefit to the user—each have that "Monitor" *superior* principle of air cleaning, that *unequalled* screen cleaning efficiency—each is backed by the strongest claims and guarantee for Separators in their class. As consistently perfect cleaners they satisfy every demand of the critical operators.

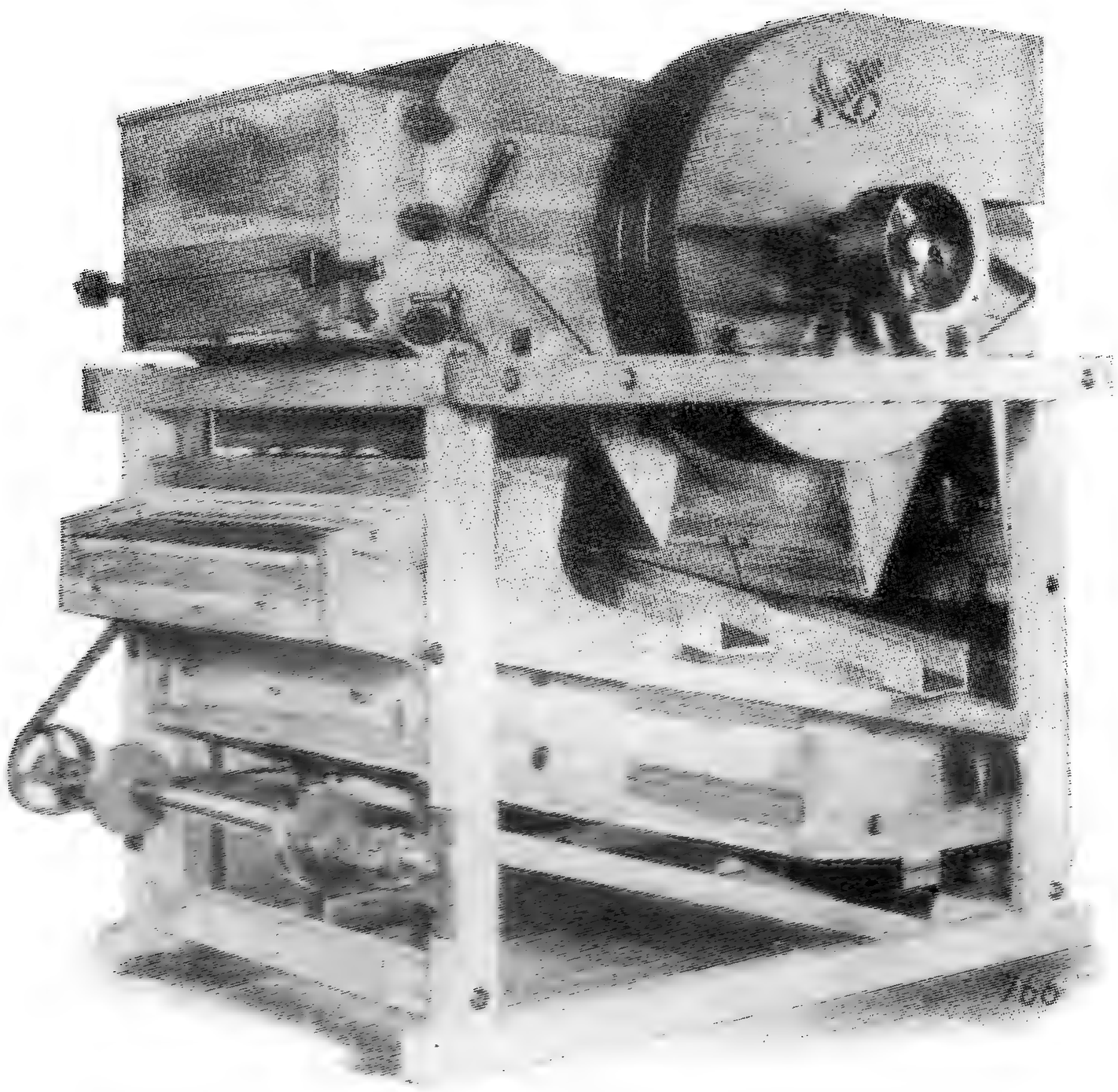
"MONITOR" RECEIVING SEPARATOR—STYLE "F"

DIMENSIONS, CAPACITIES, PRICES, ETC.

SIZE NO.		1	2	3	4	5	6	7	8	9
Extreme height		5′ 6″	6′ 1″	6′ 6″	7′ 1″	7′ 7″	8′ 0″	8′ 3″	8′ 3″	9′ 2″
Extreme length		5′ 4″	6′ 5″	6′ 9″	7′ 0″	7′ 6″	8′ 2″	8′ 11″	8′ 11″	10′ 3″
Extreme width		4′ 1″	4′ 8″	5′ 4″	6′ 2″	6′ 8″	7′ 2″	7′ 6″	8′ 3″	9′ 3″
Length on floor		4′ 8″	5′ 4″	5′ 8″	6′ 2″	6′ 7″	7′ 2″	7′ 10″	7′ 10″	9′ 0″
Width on floor		2′ 7″	3′ 2″	3′ 8″	4′ 2″	5′ 0″	5′ 1″	5′ 6″	6′ 1″	7′ 1″
Height to where grain enters		5′ 1″	5′ 5″	5′ 10″	6′ 2″	6′ 10″	7′ 2″	7′ 11″	7′ 11″	8′ 5″
Height to center of drive pulley (fan shaft)		4′ 3″	4′ 7″	4′ 11″	5′ 4″	5′ 8″	6′ 0″	6′ 2″	6′ 2″	6′ 9″
Height to center of eccentric shaft		0′ 10″	1′ 0″	1′ 2″	1′ 4″	1′ 6″	1′ 7″	2′ 0″	2′ 0″	2′ 2″
Speed	R. P. M. of fan (drive) shaft	600	600	600	550	550	500	500	500	500
	R. P. M. of eccentric shaft	600	600	600	575	550	550	550	550	525
Size of drive pulley		7″x5″	7″x5″	8″x5″	10″x5″	12″x5″	12″x6″	14″x6″	14″x7″	16″x7″
CAPACITY Bushels, per hour	Wheat—Fine screens	30	60	120	180	300	450	600	750	900
	Wheat—Medium screens	50	100	200	300	500	750	1000	1250	1500
	Wheat—Coarse screens	100	200	400	600	1000	1500	2000	2500	3000
	Barley—Fine screens	40	60	100	150	250	350	500	650	800
	Barley—Coarse screens	50	100	200	300	500	750	1000	1250	1500
	Corn or Oats—Coarse screens	75	150	300	450	750	1200	1500	2000	2500
Approximate shipping weight, pounds		1000	1250	1500	1700	2200	2800	3300	3750	4650

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	1	2	3	4	5	6	7	8	9
Fan outlet openings, depth	9″	11½″	12½″	13½″	14½″	15½″	16¼″	16¼″	19¼″
Fan outlet openings, width	6″	7″	8″	9″	10″	10½″	11″	12¼″	12¼″
Total square inches for both fan outlets	108	161	200	243	290	326	358	398	472



"MONITOR" RECEIVING SEPARATOR

STYLE "F"

IT is with pardonable pride we give our Style "F" the place of honor in this catalog—it being the World's *first* "two-fan" grain separator. This "original" 30-years successful "Monitor" and all the later models herein listed have continuously and consistently outcleaned every other make of air-work grain separator. The long-standing, increasing preference of expertly experienced grain handlers for "Monitor" ultra-efficient-air grain cleaners is due to two things—their recognition of the importance of modernly correct shaker construction, motion and drive—proper area, pitch, arrangement and clothing for the screens—in which requisites "Monitors" have proven their leadership; they, *also*, *realize* that as between screen and air separations, under average conditions, air efficiency more largely determines success or failure in cleaning, and while for screen work we utilize the most advanced, test-proven principles in design and for construction, these varied by reason of difference in capacity, or character of cleaning necessary—the air work is *the same on all "Monitors"*—read page 9.

STYLE "F" above—STYLE "G" page 17

Five cleaning operations—two accurately controlled, ultra-uniform air separations are performed, one before and one after the screen work; in efficiency and economy their work outcompares other makes. Three runs of screens (of interchangeable sections, easily removable) separate coarse trash and impurities, sand, cockle and foul seeds. (See "How they Operate," page 12.)

Accessibility to every operating part, simplicity of construction and trueness of adjustment give the operator quick responding, close-governed control by which he simply and regularly obtains separations gauged to any desired standard. Smooth running, light powered, dependable under all conditions—"Monitors" will outlive a lifetime of ordinary service. Their heavy, refined construction is in keeping with the satisfying fit and finish throughout—their unmatchable efficiency and unparalleled economy are widely demonstrated.

Read carefully page 13.

NOTE—The name changes to "Warehouse and Elevator Separator" commencing with the Style "G," next page.

CONSTRUCTION—EQUIPMENT—see page 17.

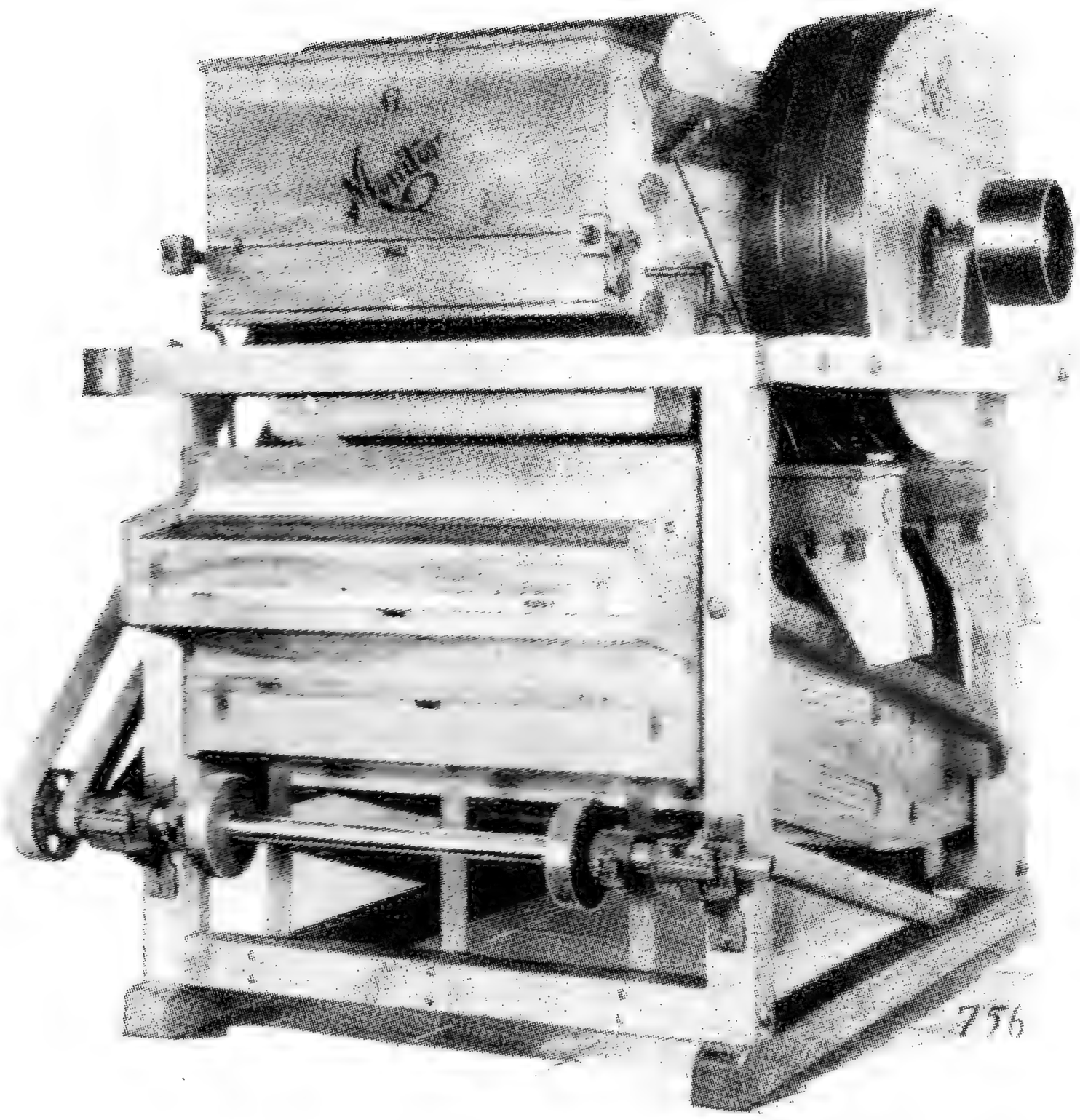
"MONITOR" WAREHOUSE AND ELEVATOR SEPARATOR—STYLE "G"

DIMENSIONS, CAPACITIES, PRICES, ETC. (ALSO STYLE "Gg")

SIZE NO.		1	2	3	4	5	6	7	8	9	10	11
Extreme height		5′ 6″	6′ 1″	6′ 6″	7′ 1″	7′ 7″	8′ 0″	8′ 3″	8′ 3″	9′ 2″	9′ 2″	9′ 2″
Extreme length		5′ 4″	6′ 5″	6′ 9″	7′ 0″	7′ 6″	8′ 2″	8′ 11″	8′ 11″	10′ 3″	10′ 3″	10′ 3″
Extreme width		4′ 1″	4′ 8″	5′ 4″	6′ 2″	6′ 8″	7′ 2″	7′ 6″	8′ 3″	9′ 3″	9′ 9″	10′ 3″
Length on floor		4′ 8″	5′ 4″	5′ 8″	6′ 2″	6′ 7″	7′ 2″	7′ 10″	7′ 10″	9′ 0″	9′ 0″	9′ 0″
Width on floor		2′ 7″	3′ 2″	3′ 8″	4′ 2″	5′ 0″	5′ 1″	5′ 6″	6′ 1″	7′ 1″	7′ 7″	8′ 1″
Height to where grain enters		5′ 1″	5′ 5″	5′ 10″	6′ 2″	6′ 10″	7′ 2″	7′ 11″	7′ 11″	8′ 5″	8′ 8″	8′ 11″
Height to center of drive pulley (fan shaft)		4′ 3″	4′ 7″	4′ 11″	5′ 4″	5′ 8″	6′ 0″	6′ 2″	6′ 2″	6′ 9″	6′ 9″	6′ 9″
Height to center of eccentric shaft		0′ 10″	1′ 0″	1′ 2″	1′ 4″	1′ 6″	1′ 7″	2′ 0″	2′ 0″	2′ 2″	2′ 2″	2′ 2″
Speed	R. P. M. of fan (drive) shaft	600	600	600	550	550	500	500	500	500	525	550
	R. P. M. of eccentric shaft	600	600	600	575	550	550	550	550	525	525	500
Size of drive pulley		7″x5″	7″x5″	8″x5″	10″x5″	12″x5″	12″x6″	14″x6″	14″x7″	16″x7″	16″x7″	16″x7″
CAPACITY Bushels, per hour	Wheat—Fine screens	30	60	120	180	300	450	600	750	900	1050	1200
	Medium screens	50	100	200	300	500	750	1000	1250	1500	1750	2000
	Coarse screens	100	200	400	600	1000	1500	2000	2500	3000	3500	4000
	Barley—Fine screens	40	60	100	150	250	350	500	650	800	900	1100
	Coarse screens	50	100	200	300	500	750	1000	1250	1500	1750	2000
	Corn or Oats—Coarse screens	75	150	300	450	750	1200	1500	2000	2500	3000	3500
Approximate shipping weight, pounds, Style "G"		1000	1250	1560	1800	2250	3000	3400	3800	4700	5000	5500

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	1	2	3	4	5	6	7	8	9	10	11
Fan outlet openings, depth	9″	11½″	12½″	13½″	14½″	15½″	16¼″	16¼″	19¼″	19¼″	19¼″
Fan outlet openings, width	6″	7″	8″	9″	10″	10½″	11″	12¼″	12¼″	12¼″	12¼″
Total square inches for both fan outlets	108	161	200	243	290	326	358	398	472	472	472



"MONITOR" WAREHOUSE AND ELEVATOR SEPARATOR

("Single Shoe" Receiving Cleaner)

STYLE "G"

A change in title—and one difference in construction—otherwise this Model is identically the same as the Style "F" illustrated and described on page 15—conveyors are attached to the tips of both settlings chambers and these deliver the aspirated stock (screenings) at side of machine, whereas this delivery on the Style "F" is by spouts. We use our exclusive design of segmental conveyor, an important "Monitor" improvement—the most perfect non-choke conveyor in use. Removable bottoms and top door at discharge end give free access to conveyors.

The outstandingly good features of this Model are described on page 15—read carefully page 13. "Operation" described page 12.

CONSTRUCTION—EQUIPMENT

STYLES "F," "G" AND "E"

Shoe carrying screens is "one-piece," inter-reinforced, counterbalanced in motion by counter-weight flywheels attached to eccentric shaft——Shoe so constructed automatic traveling brush sieve cleaners* can easily be attached to "Main" or "Seed" screens whenever desired——Screens are of interchangeable sections, easily removable—drawn from front end of shoe; the frames are exceptionally heavy construction, formed up in templets to insure free, true fit—covered with heavy metal——Fan and eccentric shafts are uncommonly heavy, of best quality steel, accurately machine finished, and—these operate in heavy-duty, dust-proof, self-oiling bearings, illustrated page 10. (Regular price, "chain" or "ring" oilers; at extra charge, self-aligning ball bearings supplied for fan shaft, see page 11)——Shaking motion imparted to shoe by two eccentrics—adjustable, dust-proof, self-oiling design, illustrated page 8——Feed hopper on the smaller sizes has self-adjusting feed gate and vibrating feeder—adjustable slide gate and revolving force feeder on the larger machines——A novel spreading device feeds grain evenly across full surface of screens——Fans are low speed, large diameter, one-piece type——Adjustable escapement gate regulates suction on stream discharging from shoe——Exclusive design of deep-area expansion chambers and Internal Compensating Air Regulators, see page 9——Frame and other details of construction, see "Heavy-Service Construction," page 5.

*"Seed" screens on Style "E" regularly supplied with brushes—see page 19.

"MONITOR" WAREHOUSE AND ELEVATOR SEPARATOR—STYLE "E"

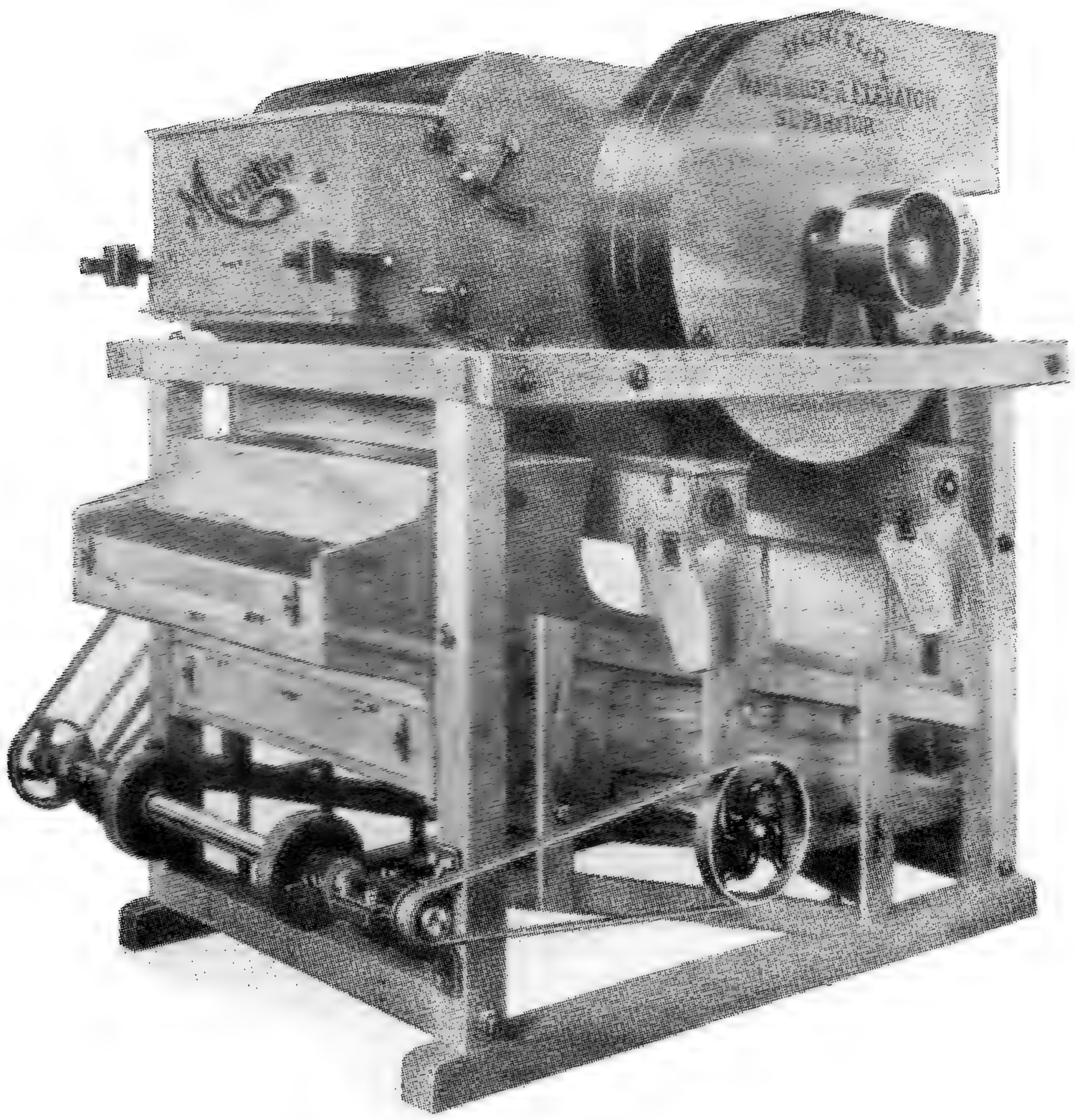
DIMENSIONS, CAPACITIES, PRICES, ETC. **(ALSO STYLES "Ee," "Eee," "Eeee")**

SIZE NO.		1	2	3	4	5	6	7	8	9	10	11
Extreme height		5′ 6″	6′ 1″	6′ 6″	7′ 1″	7′ 7″	8′ 0″	8′ 3″	8′ 3″	9′ 2″	9′ 2″	9′ 2″
Extreme length		5′ 4″	6′ 5″	6′ 9″	7′ 0″	7′ 6″	8′ 2″	8′ 11″	8′ 11″	10′ 3″	10′ 3″	10′ 3″
Extreme width		4′ 1″	4′ 8″	5′ 4″	6′ 2″	6′ 8″	7′ 2″	7′ 6″	8′ 3″	9′ 3″	9′ 9″	10′ 3″
Length on floor		4′ 8″	5′ 4″	5′ 8″	6′ 2″	6′ 7″	7′ 2″	7′ 10″	7′ 10″	9′ 0″	9′ 0″	9′ 0″
Width on floor		2′ 7″	3′ 2″	3′ 8″	4′ 2″	5′ 0″	5′ 1″	5′ 6″	6′ 1″	7′ 1″	7′ 7″	8′ 1″
Height to where grain enters		5′ 1″	5′ 5″	5′ 10″	6′ 2″	6′ 10″	7′ 2″	7′ 11″	7′ 11″	8′ 5″	8′ 8″	8′ 11″
Height to center of drive pulley (fan shaft)		4′ 3″	4′ 7″	4′ 11″	5′ 4″	5′ 8″	6′ 0″	6′ 2″	6′ 2″	6′ 9″	6′ 9″	6′ 9″
Height to center of eccentric shaft		0′ 10″	1′ 0″	1′ 2″	1′ 4″	1′ 6″	1′ 7″	2′ 0″	2′ 0″	2′ 2″	2′ 2″	2′ 2″
Speed	R. P. M. of fan (drive) shaft	600	600	600	550	550	500	500	500	500	525	550
	R. P. M. of eccentric shaft	600	600	600	575	550	550	550	550	525	525	500
Size of drive pulley		7″x5″	7″x5″	8″x5″	10″x5″	12″x5″	12″x6″	14″x6″	14″x7″	16″x7″	16″x7″	16″x7″
CAPACITY Bushels, per hour	Wheat—Fine screens	30	60	120	180	300	450	600	750	900	1050	1200
	Wheat—Medium screens	50	100	200	300	500	750	1000	1250	1500	1750	2000
	Wheat—Coarse screens	100	200	400	600	1000	1500	2000	2500	3000	3500	4000
	Barley—Fine screens	40	60	100	150	250	350	500	650	800	900	1100
	Barley—Coarse screens	50	100	200	300	500	750	1000	1250	1500	1750	2000
	Corn or Oats—Coarse screens	75	150	300	450	750	1200	1500	2000	2500	3000	3500
Approximate shipping weight, pounds, Style "E"		1100	1250	1550	1850	2350	3150	3500	4000	5000	5400	5850

Style "E" ...ed page 19

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	1	2	3	4	5	6	7	8	9	10	11
Fan outlet openings, depth	9″	11½″	12½″	13½″	14½″	15½″	16¼″	16¼″	19¼″	19¼″	19¼″
Fan outlet openings, width	6″	7″	8″	9″	10″	10½″	11″	12¼″	12¼″	12¼″	12¼″
Total square inches for both fan outlets	108	161	200	243	290	326	358	398	472	472	472



"MONITOR" WAREHOUSE AND ELEVATOR SEPARATOR

("Single Shoe" Receiving Cleaner)

STYLE "E"

THE same construction, the same surpassing character of two-air and three-screens cleaning as the Style "G," page 17 the above machine differs only in this one feature—Automatic Traveling Brush Sieve Cleaner is supplied for the "Seed" screen. (So listed for standard equipment—Sieve Cleaners can be attached to both "Main" and "Seed" screens if required—see list, page 18.) Read pages 13 and 15 carefully.

Automatic Sieve Cleaners

The importance of Sieve Cleaners cannot be overestimated—their use insures full capacity screen work and the maximum of perfect separations under all conditions, especially is this true of the "Seed" (or Cockle) screen perforations which are of small size and quickly become clogged on certain kinds of work. The old practice of rapping and pounding screens to keep the perforations open is ineffective and expensive. A safer, cheaper way to have all the perforations open all the time is to use our adjustable "under-the screen" traveling brush sieve cleaners which operate continuously. A simple, dependable attachment having durable construction, "Monitor" Automatic Sieve Cleaners operate with little care and deliver unfailing, valuable service. Their cost is too small to prohibit any purchaser availing himself of the many advantages to be had from their use.

CONSTRUCTION—EQUIPMENT

The same as Style "G," page 17, with this additional feature—Automatic Traveling Brush Sieve Cleaner for the "Seed" screen, adjustable and having compression oilers for the main bearings.

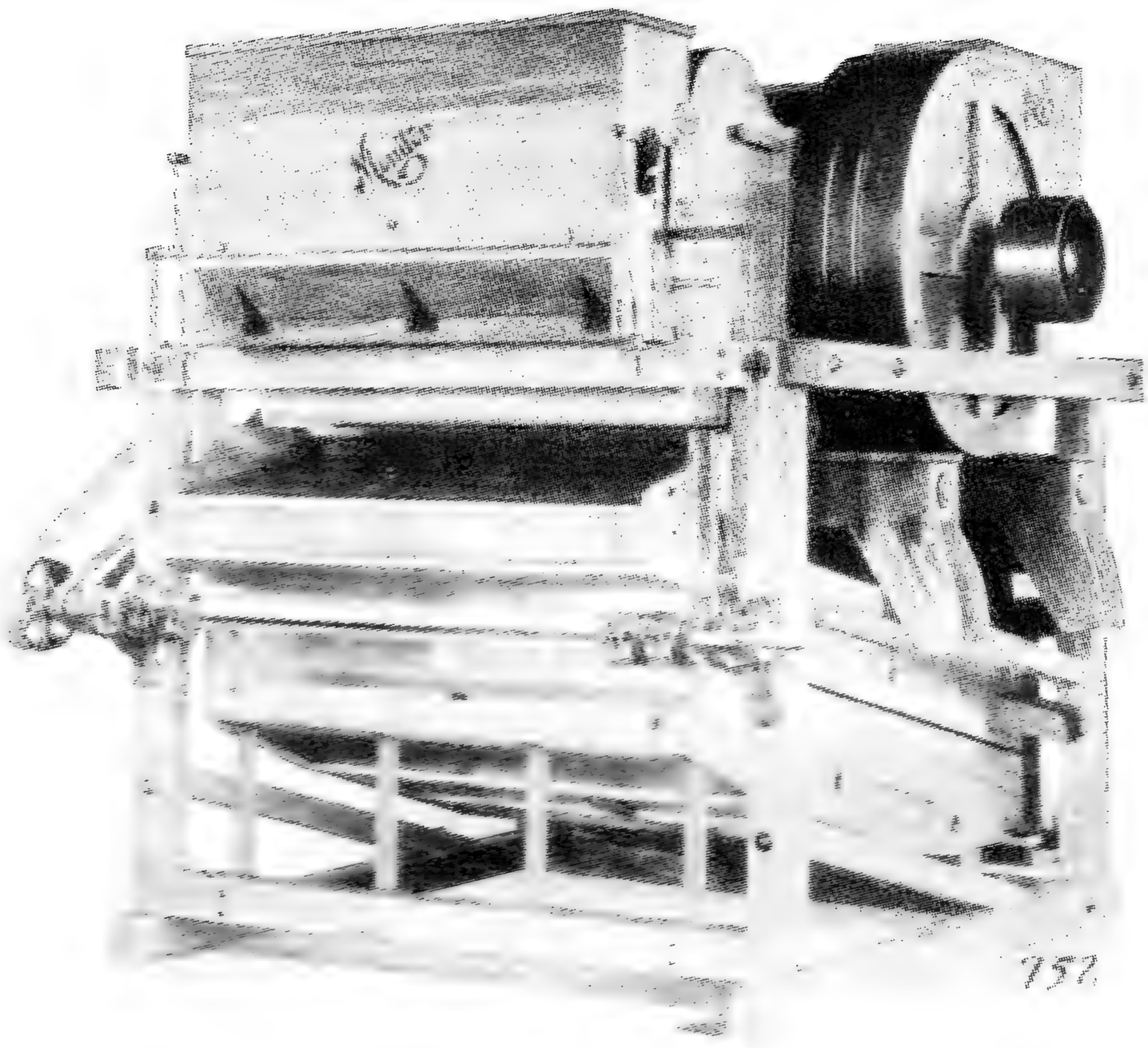
"MONITOR" WAREHOUSE AND ELEVATOR SEPARATOR—STYLE "D"

DIMENSIONS, CAPACITIES, PRICES, ETC. (ALSO STYLE "Dd")

SIZE NO.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Extreme height		5′ 10″	6′ 6″	6′ 8″	7′ 1″	7′ 7″	7′ 10″	8′ 5″	8′ 5″	9′ 2″	9′ 2″	9′ 2″	9′ 2″	9′ 5″	9′ 2″	9′ 2″
Extreme length		5′ 4″	6′ 2″	6′ 6″	7′ 0″	7′ 5″	8′ 0″	9′ 0″	9′ 0″	10′ 5″	10′ 5″	10′ 5″	10′ 5″	10′ 5″	10′ 5″	10′ 5″
Extreme width		4′ 6″	5′ 2″	5′ 8″	6′ 2″	6′ 7″	7′ 5″	7′ 9″	8′ 6″	9′ 8″	10′ 2″	10′ 8″	11′ 5″	12′ 2″	12′ 10″	13′ 6″
Length on floor		4′ 8″	5′ 5″	5′ 9″	6′ 2″	6′ 6″	7′ 1″	7′ 9″	7′ 9″	9′ 1″	9′ 1″	9′ 1″	9′ 1″	9′ 1″	9′ 1″	9′ 1″
Width on floor		3′ 3″	3′ 10″	4′ 4″	4′ 11″	5′ 5″	5′ 10″	6′ 4″	6′ 11″	7′ 11″	8′ 5″	8′ 11″	9′ 5″	9′ 11″	10′ 5″	10′ 11″
Height to where grain enters		5′ 6″	5′ 10″	6′ 0″	6′ 4″	6′ 10″	7′ 1″	8′ 2″	8′ 2″	8′ 5″	8′ 8″	8′ 11″	9′ 2″	9′ 5″	8′ 5″	8′ 5″
Height to center of drive pulley (fan shaft)		4′ 6″	5′ 0″	5′ 1″	5′ 5″	5′ 8″	5′ 11″	6′ 5″	6′ 5″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″
Height to center of eccentric shaft		2′ 2″	2′ 3″	2′ 5″	2′ 8″	2′ 8″	2′ 10″	3′ 2″	3′ 2″	2′ 7″	2′ 7″	2′ 7″	2′ 7″	2′ 7″	2′ 7″	2′ 7″
Speed	R. P. M. of fan (drive) shaft	600	600	600	550	550	500	500	500	500	525	550	575	600	500	500
	R. P. M. of eccentric shaft	600	600	600	575	550	550	550	550	525	525	500	500	500	500	500
Size of drive pulley		7″x5″	7″x5″	8″x5″	10″x5″	12″x5″	12″x6″	14″x6″	14″x7″	16″x7″	16″x7″	16″x7″	16″x8″	16″x8″	18″x8″	18″x8″
CAPACITY Bushels, per hour	Wheat—Fine screens	30	60	120	180	300	450	600	750	900	1050	1200	1350	1500	1650	1800
	Wheat—Medium screens	50	100	200	300	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000
	Wheat—Coarse screens	100	200	400	600	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
	Barley—Fine screens	40	60	100	150	250	350	500	650	800	900	1100	1250	1400	1550	1700
	Barley—Coarse screens	50	100	200	300	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000
	Corn or Oats—Coarse screens	75	150	300	450	750	1200	1500	2000	2500	3000	3500	4000	4500	5000	5500
Approximate shipping weight, pounds, Style "D"		1150	1400	1600	1950	2500	3100	3650	4100	4850	5300	5800	6300	6800	7400	8000

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Fan outlet openings, depth	9″	11½″	12½″	13½″	14½″	15½″	16¼″	16¼″	19¼″	19¼″	19¼″	19¼″	19¼″		
Fan outlet openings, width	6″	7″	8″	9″	10″	10½″	11″	12¼″	12¼″	12¼″	12¼″	13¼″	14¼″		
Total square inches for both fan outlets	108	162	200	244	290	326	358	398	472	472	472	510	548		



"MONITOR" WAREHOUSE AND ELEVATOR SEPARATOR

Compound (Self-Balancing) Receiving Cleaner

STYLE "D"

FEATURING our original design of one-over-the-other two-shoe construction: the two suspended shoes are driven by four eccentrics, opposed in pairs and operated by one uncommonly heavy eccentric shaft—self-balancing action. As pioneers in this type of cleaner construction we unhesitatingly assert what thousands of pleased operators have acclaimed—for smoothness in operation, quiet running, freedom from care—and endurance, the equal of our "compound" "Monitors" are yet to be demonstrated.

Whereas Styles "F," "G" and "E" (pages 15, 17 and 19) are "single" this "D" is a "two-shoe" machine as explained, and preferable in the larger capacities by virtue of its smoother operation, otherwise all are the same—**five cleaning operations.** Two accurately controlled air separations are performed, one before and one after the screen work; the efficiency and economy of their work is unrivaled. Three runs of screens (of interchangeable sections, easily removable) remove coarse trash and impurities, sand, cockle and foul seeds—see "Operation," page 12. If you will read pages 13 and 15 thoroughly, then consider the advantages of our self-balancing drive described above, the superiority of this "D" Model is appealingly clear.

"Monitor" consistency—with each, whatever its style, that wonderful sameness in air cleaning, separations showing phenomenal definition—a uniformity unmatchable; screen separations having a trueness that leaves nothing to be desired. Just as all "Monitor" Receiving Separators lead in their respective class in thorough, finished cleaning performance, so is each a duplicate of the other in high-grade manufacture—the distinction is between extensiveness of equipment only. Always, with "Monitors" that simply, closely controlled, light powered, satisfying service—that greater betterment in cleaning which has made them the most-used by the critically expert buyers.

See "Operation"—page 12.

CONSTRUCTION—EQUIPMENT

See complete listing page 23.

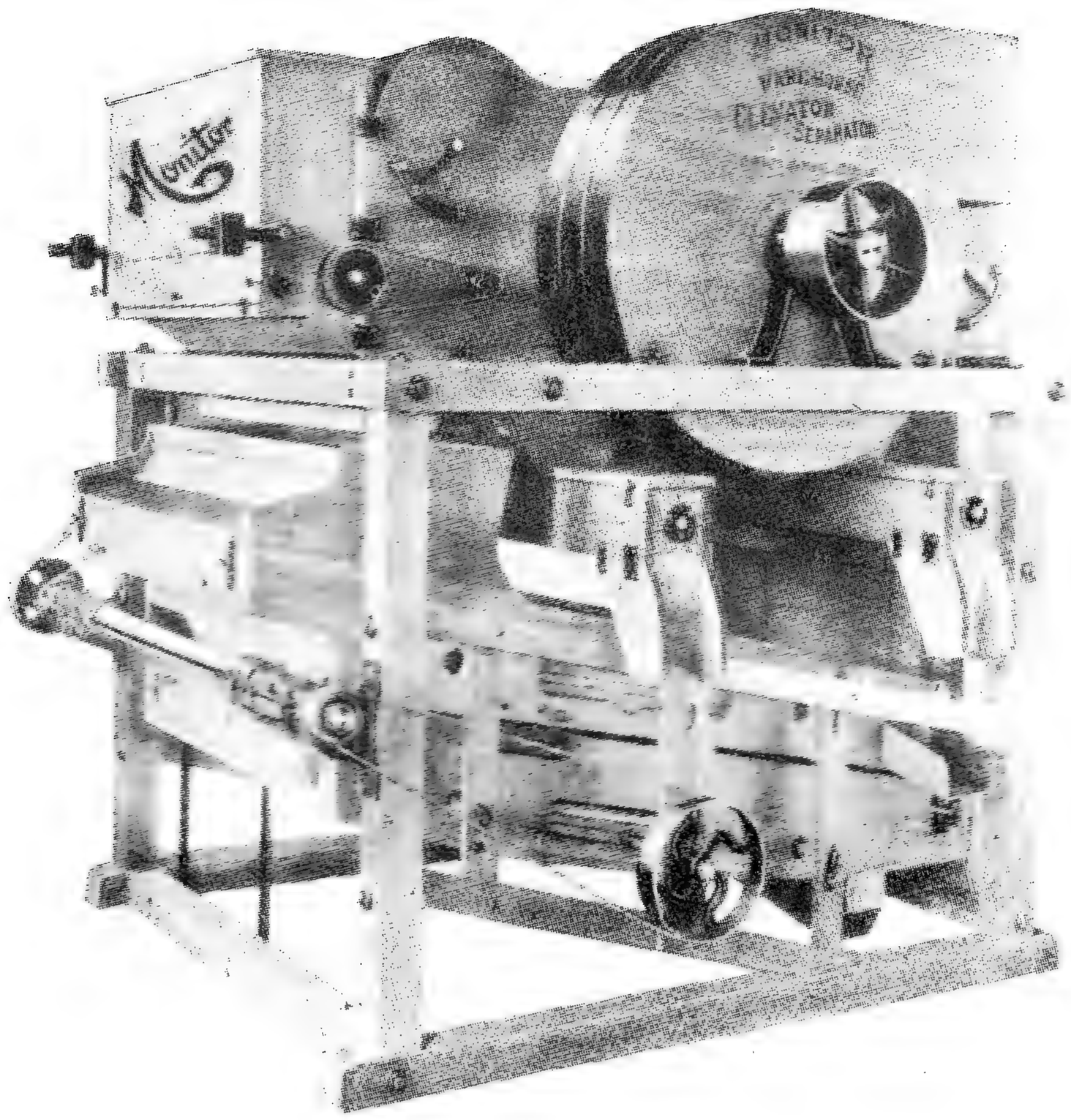
"MONITOR" WAREHOUSE AND ELEVATOR SEPARATOR—STYLE "C"

DIMENSIONS, CAPACITIES, PRICES, ETC. (ALSO STYLES "Cc," "Ccc")

SIZE NO.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Extreme height		5′ 10″	6′ 6″	6′ 8″	7′ 1″	7′ 7″	7′ 10″	8′ 5″	8′ 5″	9′ 2″	9′ 2″	9′ 2″	9′ 2″	9′ 5″	9′ 2″	9′ 2″
Extreme length		5′ 4″	6′ 2″	6′ 6″	7′ 0″	7′ 5″	8′ 0″	9′ 0″	9′ 0″	10′ 5″	10′ 5″	10′ 5″	10′ 5″	10′ 5″	10′ 5″	10′ 5″
Extreme width		4′ 6″	5′ 2″	5′ 8″	6′ 2″	6′ 7″	7′ 5″	7′ 9″	8′ 6″	9′ 8″	10′ 2″	10′ 8″	11′ 5″	12′ 2″	12′ 10″	13′ 6″
Length on floor		4′ 8″	5′ 5″	5′ 9″	6′ 2″	6′ 6″	7′ 1″	7′ 9″	7′ 9″	9′ 1″	9′ 1″	9′ 1″	9′ 1″	9′ 1″	9′ 1″	9′ 1″
Width on floor		3′ 3″	3′ 10″	4′ 4″	4′ 11″	5′ 5″	5′ 10″	6′ 4″	6′ 11″	7′ 11″	8′ 5″	8′ 11″	9′ 5″	9′ 11″	10′ 5″	10′ 11″
Height to where grain enters		5′ 6″	5′ 10″	6′ 0″	6′ 4″	6′ 10″	7′ 1″	8′ 2″	8′ 2″	8′ 5″	8′ 8″	8′ 11″	9′ 2″	9′ 5″	8′ 5″	8′ 5″
Height to center of drive pulley (fan shaft)		4′ 6″	5′ 0″	5′ 1″	5′ 5″	5′ 8″	5′ 11″	6′ 5″	6′ 5″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″
Height to center of eccentric shaft		2′ 2″	2′ 3″	2′ 5″	2′ 8″	2′ 8″	2′ 10″	3′ 2″	3′ 2″	2′ 7″	2′ 7″	2′ 7″	2′ 7″	2′ 7″	2′ 7″	2′ 7″
Speed	R. P. M. of fan (drive) shaft	600	600	600	550	550	500	500	500	500	525	550	575	600	500	500
	R. P. M. of eccentric shaft	600	600	600	575	550	550	550	550	525	525	500	500	500	500	500
Size of drive pulley		7″x5″	7″x5″	8″x5″	10″x5″	12″x5″	12″x6″	14″x6″	14″x7″	16″x7″	16″x7″	16″x7″	16″x8″	16″x8″	18″x8″	18″x8″
CAPACITY Bushels, per hour	Wheat—Fine screens	30	60	120	180	300	450	600	750	900	1050	1200	1350	1500	1650	1800
	Wheat—Medium screens	50	100	200	300	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000
	Wheat—Coarse screens	100	200	400	600	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
	Barley—Fine screens	40	60	100	150	250	350	500	650	800	900	1100	1250	1400	1550	1700
	Barley—Coarse screens	50	100	200	300	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000
	Corn or Oats—Coarse screens	75	150	300	450	750	1200	1500	2000	2500	3000	3500	4000	4500	5000	5500
Approximate shipping weight, pounds, Style "C"		1200	1450	1700	2050	2600	3200	3800	4200	5100	5500	6100	6600	7100	7700	8300

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Fan outlet openings, depth	9″	11½″	12½″	13½″	14½″	15½″	16¼″	16¼″	19¼″	19¼″	19¼″	19¼″	19¼″		
Fan outlet openings, width	6″	7″	8″	9″	10″	10½″	11″	12¼″	12¼″	12¼″	12¼″	13¼″	14¼″		
Total square inches for both fan outlets	108	162	200	244	290	326	358	398	472	472	472	510	548		



"MONITOR" WAREHOUSE AND ELEVATOR SEPARATOR

Compound (Self-Balancing) Receiving Cleaner

STYLE "C"

SAME as Style "D," page 21, with one exception—Automatic, "under-the-screen" Sieve Cleaners are supplied for the "Seed" screen on this machine. We recommend sieve cleaners for every grain cleaning machine—their extra cost is small as compared with the valuable service they render—see "Automatic Sieve Cleaners," page 19. Should you desire sieve cleaners for both "Seed" and "Main" screens they can be furnished—see list, page 22. One of our leaders—a favorite with discriminating cleaner users—see description page 21 and, also, read pages 13 and 15.

CONSTRUCTION—EQUIPMENT

STYLES "D" AND "C"

Shoes carrying screens are inter-reinforced design, so constructed automatic traveling brush sieve cleaners can easily be attached to "Main" or "Seed" screens* whenever desired——Screens are of interchangeable sections, easily removable, withdrawn from front end; the frames are exceptionally heavy construction, formed up in templets to insure free, true fit—covered with heavy metal——Fan and eccentric shafts are uncommonly heavy, best quality steel, machine sized, and —these operate in heavy-duty, dust-proof, self-oiling bearings, see illustration, page 10. ("Chain" or "ring" oilers at regular price; self-aligning ball bearings for fan shaft at extra price, see page 11) ——Shaking motion imparted to shoes by four heavy-duty eccentrics, adjustable, dust-proof, self-oiling design, illustrated page 8——Feed hopper on the smaller sizes has self-adjusting feed gate and vibrating force feeder—adjustable slide gate and revolving force feeder on the larger machines ——A novel spreading device feeds grain evenly across full surface of screens——Fans are low speed, large diameter, one-piece type——Adjustable escapement gate regulates suction on stream discharging from shoe——Exclusive design of deep-area expansion chambers and Internal Compensating Air Regulators, see page 9——Frame and other details of construction, see "Heavy-Service Construction," page 5.

*"Seed" screens on Style "C" regularly supplied with brushes—see above.

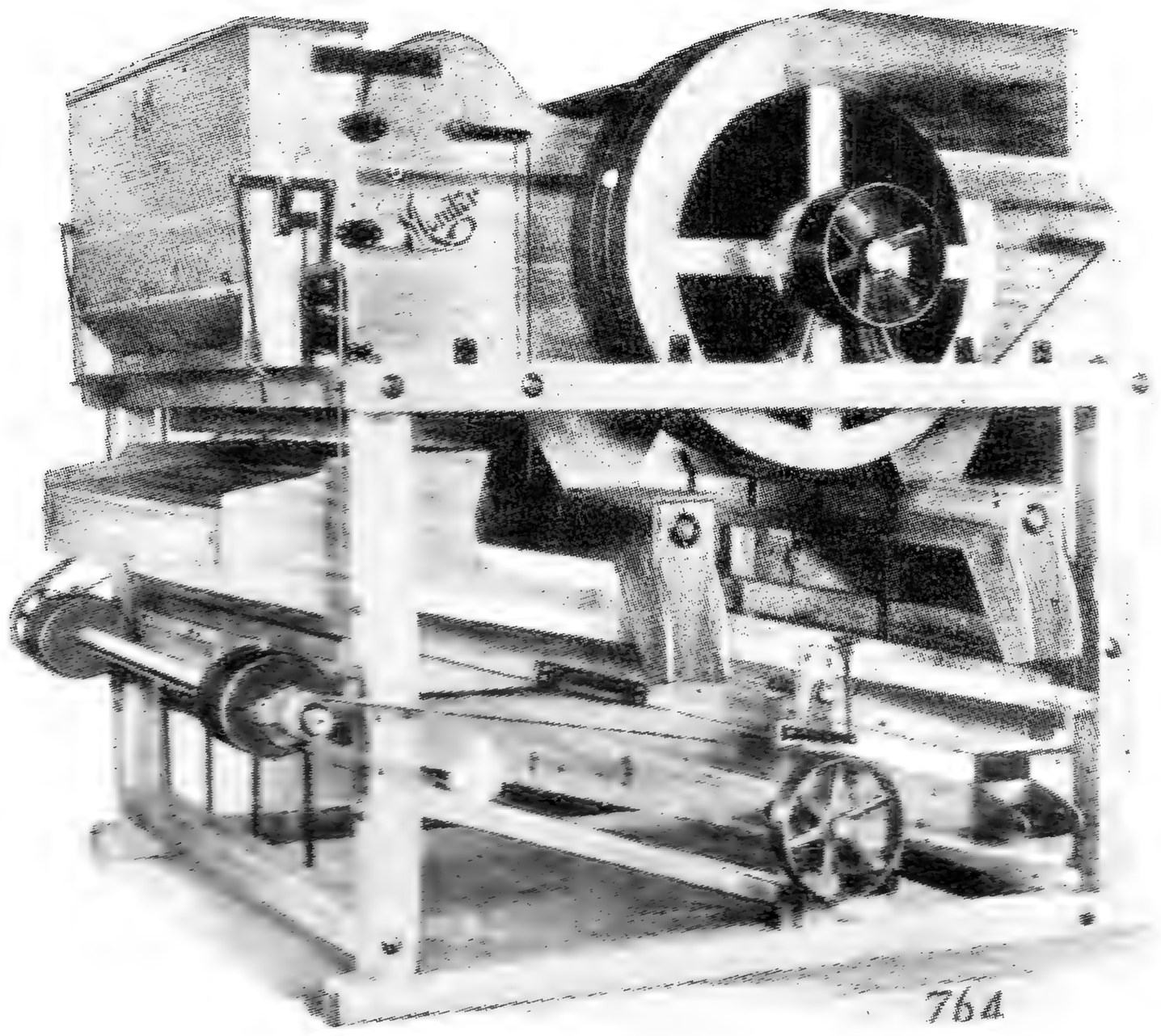
"MONITOR" AUTOMATIC WAREHOUSE AND ELEVATOR SEPARATOR—STYLE "B"

DIMENSIONS, CAPACITIES, PRICES, ETC.

SIZE NO.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Extreme height		5′ 10″	6′ 6″	6′ 8″	7′ 1″	7′ 7″	7′ 10″	8′ 5″	8′ 5″	9′ 2″	9′ 2″	9′ 2″	9′ 2″	9′ 5″	9′ 2″	9′ 2″
Extreme length		5′ 4″	6′ 2″	6′ 6″	7′ 0″	7′ 5″	8′ 0″	9′ 0″	9′ 0″	10′ 5″	10′ 5″	10′ 5″	10′ 5″	10′ 5″	10′ 5″	10′ 5″
Extreme width		4′ 6″	5′ 2″	5′ 8″	6′ 2″	6′ 7″	7′ 5″	7′ 9″	8′ 6″	9′ 8″	10′ 2″	10′ 8″	11′ 5″	12′ 2″	12′ 10″	13′ 6″
Length on floor		4′ 8″	5′ 5″	5′ 9″	6′ 2″	6′ 6″	7′ 1″	7′ 9″	7′ 9″	9′ 1″	9′ 1″	9′ 1″	9′ 1″	9′ 1″	9′ 1″	9′ 1″
Width on floor		3′ 3″	3′ 10″	4′ 4″	4′ 11″	5′ 5″	5′ 10″	6′ 4″	6′ 11″	7′ 11″	8′ 5″	8′ 11″	9′ 5″	9′ 11″	10′ 5″	10′ 11″
Height to where grain enters		5′ 6″	5′ 10″	6′ 0″	6′ 4″	6′ 10″	7′ 1″	8′ 2″	8′ 2″	8′ 5″	8′ 8″	8′ 11″	9′ 2″	9′ 5″	8′ 5″	8′ 5″
Height to center of drive pulley (fan shaft)		4′ 6″	5′ 0″	5′ 1″	5′ 5″	5′ 8″	5′ 11″	6′ 5″	6′ 5″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″
Height to center of eccentric shaft		2′ 2″	2′ 3″	2′ 5″	2′ 8″	2′ 8″	2′ 10″	3′ 2″	3′ 2″	2′ 7″	2′ 7″	2′ 7″	2′ 7″	2′ 7″	2′ 7″	2′ 7″
Speed	R. P. M. of fan (drive) shaft	600	600	600	550	550	500	500	500	500	525	550	575	600	500	500
	R. P. M. of eccentric shaft	600	600	600	575	550	550	550	550	525	525	500	500	500	500	500
Size of drive pulley		7″x5″	7″x5″	8″x5″	10″x5″	12″x5″	12″x6″	14″x6″	14″x7″	16″x7″	16″x7″	16″x7″	16″x8″	16″x8″	18″x8″	18″x8″
CAPACITY Bushels, per hour	Wheat—Fine screens	30	60	120	180	300	450	600	750	900	1050	1200	1350	1500	1650	1800
	Wheat—Medium screens	50	100	200	300	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000
	Wheat—Coarse screens	100	200	400	600	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
	Barley—Fine screens	40	60	100	150	250	350	500	650	800	900	1100	1250	1400	1550	1700
	Barley—Coarse screens	50	100	200	300	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000
	Corn or Oats—Coarse screens	75	150	300	450	750	1200	1500	2000	2500	3000	3500	4000	4500	5000	5500
Approximate shipping weight, pounds		1250	1500	1800	2200	2700	3600	4200	4700	5′	6000	6250	6600	7200	7800	8300

SIZE OF FAN OUTLETS INSIDE MEASURE

SIZE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Fan outlet openings, depth	9″	11½″	12½″	13½″	14½″	15½″	16¼″	16¼″	19¼″	19¼″	19¼″	19¼″	19¼″		
Fan outlet openings, width	6″	7″	8″	9″	10″	10½″	11″	12¼″	12¼″	12¼″	12¼″	13¼″	14¼″		
Total square inches for both fan outlets	108	162	200	244	290	326	358	398	472	472	472	510	548		



"MONITOR" WAREHOUSE AND ELEVATOR SEPARATOR

Compound (Self-Balancing) Receiving Cleaner—Automatic

STYLE "B"

AMERICA'S Master Cleaner—a title earned by years of unparalleled cleaning performance under severely exacting service. Its broadly conceded supremacy and exclusive use in the World's largest, modern Elevators is based on genuinely beneficial, proven qualities. With surprising simplicity and unequalled efficiency it answers every reasonable requirement in regular receiving cleaning work. Practical mechanical perfection, superlative smoothness of operation, trueness of adjustment and accuracy of control are underlying features that make this the most consistently reliable and satisfyingly endurable, close-action-non-wasteful Cleaner in this class. Light power, infrequent attention and low upkeep are features.

Five cleaning operations—two-air and three-screen cleanings, read carefully pages 12, 13 and 15.. This is our Style "D" (page 21) with sieve cleaners under both "Main" and "Seed" screens—and Disc Oiling Eccentrics.

CONSTRUCTION—EQUIPMENT

Shoes carrying screens are inter-reinforced design——Automatic sieve cleaners under "Main" and "Seed" screens—these provided with compression oilers for main bearings——Three screen runs, of interchangeable sections, easily removable—withdrawn from front end; screen frames are exceptionally heavy construction, formed up in templets to insure free, true fit—covered with heavy metal——Fan and eccentric shafts are uncommonly heavy, best quality steel, machine sized, and —these operate in heavy-duty, dust-proof, self-oiling bearings, see illustration page 10. ("Chain" or "ring" oilers at regular price; self-aligning ball bearings for fan shaft at extra price, see page 11) ——Shaking motion imparted to shoes by four heavy-duty eccentrics, adjustable, dust-proof, disc-oiler style, illustrated pages 6 and 7——Feed hopper on the smaller sizes has self-adjusting feed gate and vibrating feeder—adjustable slide gate and revolving force feeder on the larger machines——A novel spreading device feeds grain evenly across full surface of screens——Fans are low speed, large diameter, one-piece type——Adjustable escapement gate regulates suction on stream discharging from shoe——Exclusive design of deep-area expansion chambers and Internal Compensating Air Regulators, see page 9——Frame and other details of construction, see "Heavy-Service Construction," page 5.

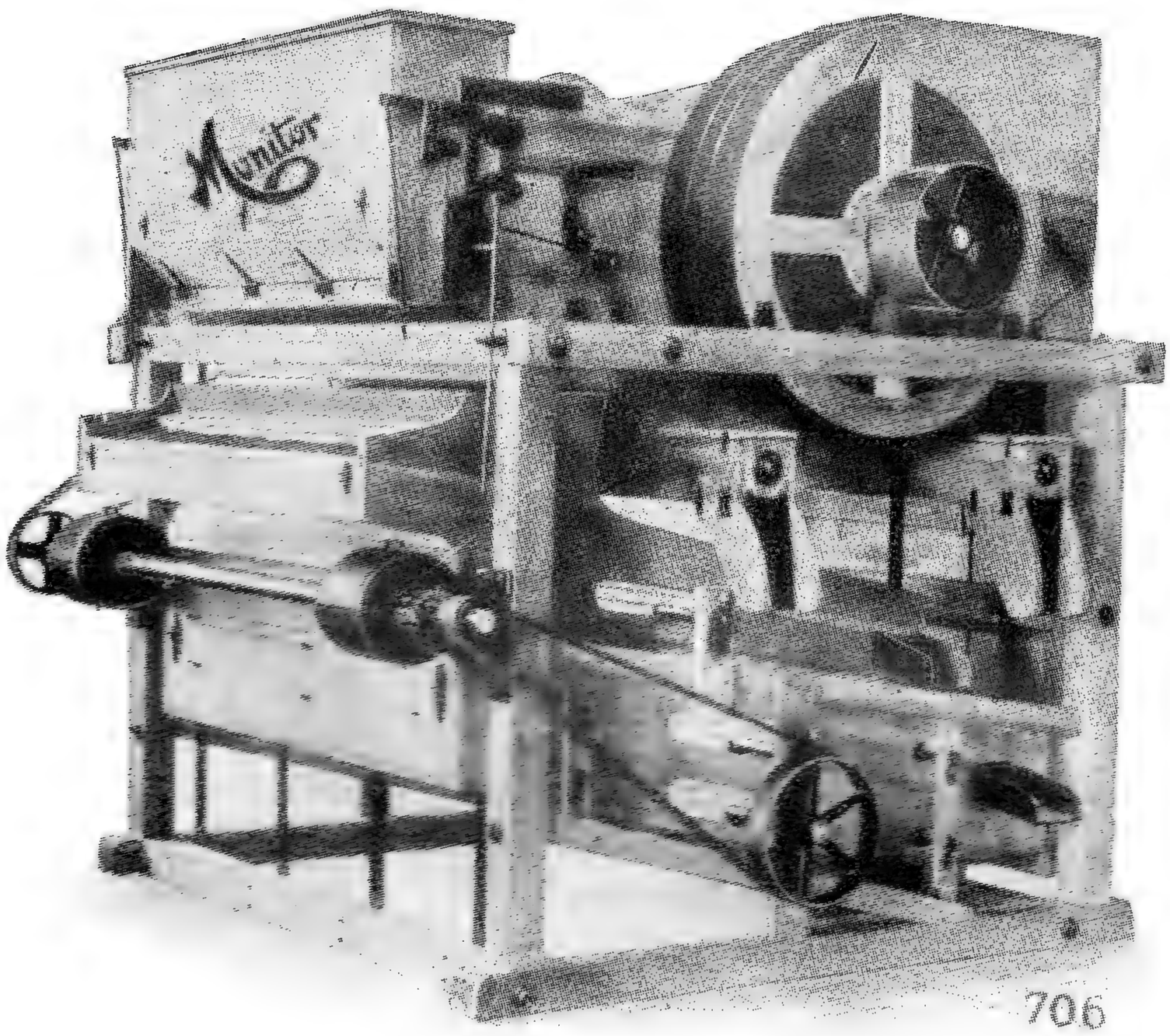
"MONITOR" AUTOMATIC WAREHOUSE AND ELEVATOR SEPARATOR—STYLE "A"

DIMENSIONS, CAPACITIES, PRICES, ETC.

SIZE NO.		1	2	3	4	5	6	7	8	9	10	11
Extreme height		7′ 0″	7′ 0″	7′ 0″	8′ 6″	8′ 8″	8′ 8″	8′ 10″	8′ 10″	8′ 10″	9′ 0″	9′ 3″
Extreme length		7′ 0″	7′ 0″	7′ 0″	8′ 10″	8′ 10″	8′ 10″	8′ 10″	8′ 10″	8′ 10″	8′ 10″	8′ 10″
Extreme width		5′ 0″	5′ 4″	5′ 10″	6′ 10″	7′ 5″	8′ 3″	8′ 10″	9′ 4″	9′ 11″	10′ 6″	11′ 0″
Length on floor		6′ 4″	6′ 4″	6′ 4″	7′ 9″	7′ 9″	7′ 9″	7′ 9″	7′ 9″	7′ 9″	7′ 9″	7′ 9″
Width on floor		3′ 10″	4′ 2″	4′ 6″	5′ 5″	5′ 11″	6′ 5″	6′ 11″	7′ 5″	7′ 11″	8′ 5″	8′ 11″
Height to where grain enters		6′ 6″	6′ 6″	6′ 6″	7′ 6″	7′ 9″	8′ 0″	8′ 3″	8′ 6″	8′ 9″	9′ 0″	9′ 3″
Height to center of drive pulley (fan shaft)		5′ 6″	5′ 6″	5′ 6″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″
Height to center of eccentric shaft		2′ 10″	2′ 10″	2′ 10″	3′ 5″	3′ 5″	3′ 5″	3′ 5″	3′ 5″	3′ 5″	3′ 5″	3′ 5″
Speed	R. P. M. of fan (drive) shaft	550	550	550	550	500	500	500	500	500	525	550
	R. P. M. of eccentric shaft	475	475	475	475	475	475	475	475	475	475	475
Size of drive pulley		9″x4½″	9″x4½″	9″x4½″	10″x5½″	12″x5½″	12″x6½″	14″x6½″	14″x7½″	16″x7½″	16″x8½″	16″x8½″
CAPACITY Bushels, per hour	Wheat—Fine screens	30	60	120	180	300	450	600	750	900	1050	1200
	Wheat—Medium screens	50	100	200	300	500	750	1000	1250	1500	1750	2000
	Wheat—Coarse screens	100	200	400	600	1000	1500	2000	2500	3000	3500	4000
	Barley—Fine screens	40	60	100	150	250	350	500	650	800	900	1100
	Barley—Coarse screens	50	100	200	300	500	750	1000	1250	1500	1750	2000
	Corn or Oats—Coarse screens	75	150	300	450	750	1200	1500	2000	2500	3000	3500
Approximate shipping weight, pounds		1800	1900	2050	3400	4200	4500	4650	4800	5500	6200	6450

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	1	2	3	4	5	6	7	8	9	10	11
Fan outlet openings, depth	11½″	11½″	11½″	14½″	15½″	15½″	16¼″	16¼″	16¼″	16¼″	16¼″
Fan outlet openings, width	7″	7″	8″	10″	10½″	10½″	11″	12¼″	12¼″	12¼″	12¼″
Total square inches for both fan outlets	161	161	184	290	326	326	358	398	398	398	398



"MONITOR" WAREHOUSE AND ELEVATOR SEPARATOR

Compound (Self-Balancing) Receiving Cleaner—4 Screens—Automatic

STYLE "A"

EMBODYING all the exclusive, desirable features of our Style "B" "Monitor," page 25, and delivering in a like manner the same unmatchable character of air separations (2) this Style "A" has one advantage in screen work—an additional run of screens: thus instead of three, as with the "B," four separate screen operations are obtained. This extra run of screens, known as the "auxiliary," is located in the upper shoe—following the "scalper" and ahead of the "main screen" run: as with both the "Main" and "Seed" it is automatically cleaned with our perfected under-the-screen brush cleaners. The advantages of the "auxiliary" screens are perhaps best expressed by a prominent user who writes—"Your four-screen 'Monitor' cuts my cleaning in two—one cleaning is all for the worst stuff the farmers bring in." The "auxiliary" is variously employed; as a preliminary to the "Main" and thereby permitting use of finer than ordinary clothing for the latter screen, with resultant closer work and better definition at undiminished capacity, or it may be dressed with special perforations for a separation unobtainable with either the "Scalper," "Main" or "Seed" screens—in which case "repeated" or recleaning work is avoided. Mastering with astonishing simplicity and unfailing correctness "teasing" consignments of uncommonly dirty grain, or mixtures that a three-screen "Receiver" cannot handle thoroughly, this "Monitor" is offered as a pleasingly profitable and highly advantageous Cleaner.

NOTE—Read pages 5, 9, 12 and 13.

CONSTRUCTION—EQUIPMENT

For features of superiority and listing of equipment see "Construction—Equipment" for Style "B," page 25—the "A" and "B" are identical with exception of "auxiliary" screen and traveling brush sieve cleaners as described above for this "A" Model.

"MONITOR" TWO-STREAM WAREHOUSE AND ELEVATOR SEPARATOR

DIMENSIONS, CAPACITIES, PRICES, ETC.

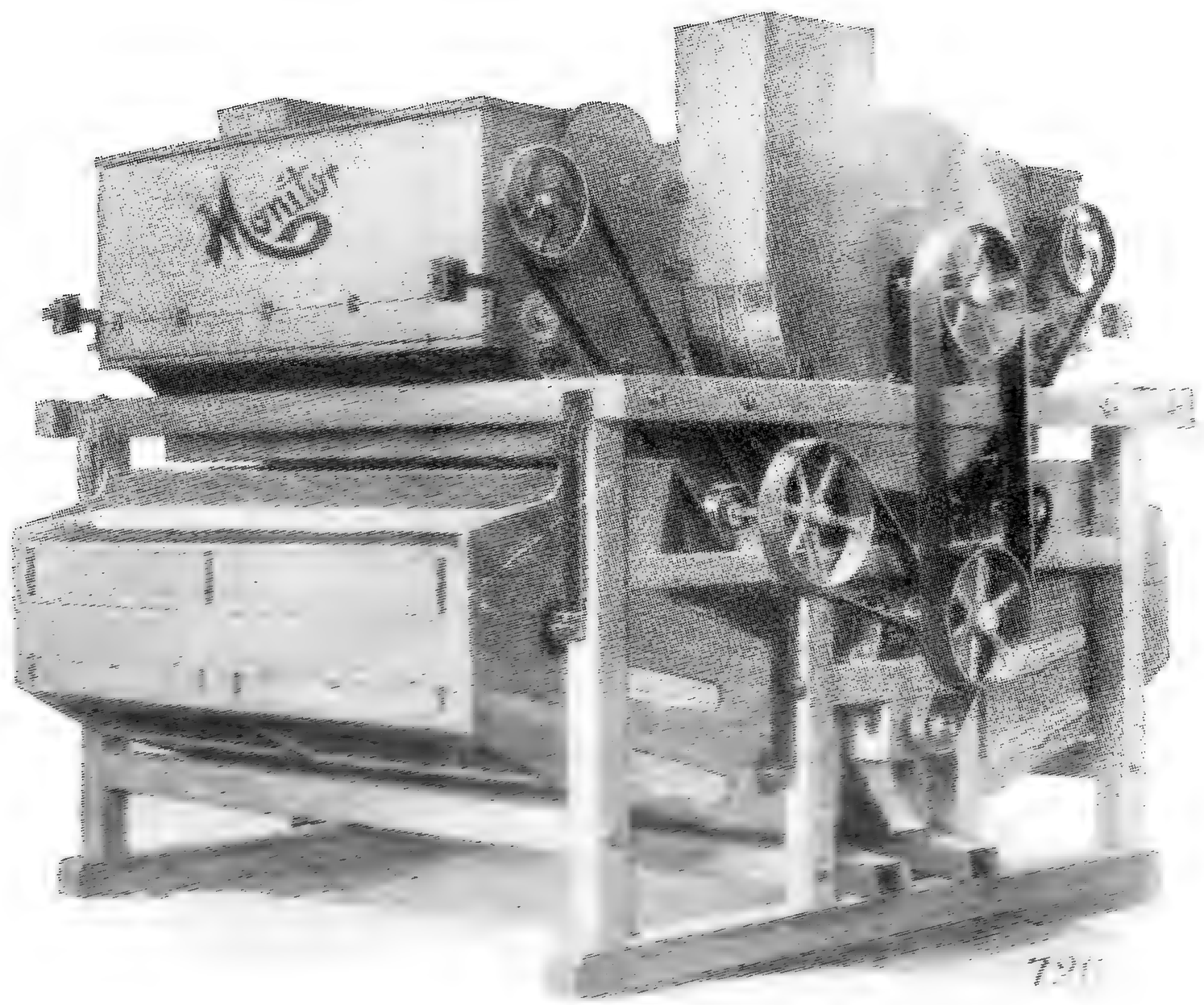
SIZE NO.	6	7	8	9	10	11	12	13	14	15
Extreme height	8′ 2″	8′ 2″	8′ 2″	8′ 2″	8′ 2″	8′ 5″	8′ 8″	8′ 11″	8′ 8″	8′ 8″
Extreme length	10′ 8″	10′ 8″	10′ 8″	10′ 8″	10′ 8″	10′ 8″	10′ 8″	10′ 8″	10′ 8″	10′ 8″
Extreme width	7′ 6″	8′ 0″	8′ 10″	9′ 4″	9′ 10″	10′ 4″	11′ 1″	11′ 10″	12′ 6″	13′ 2″
Length on floor	8′ 11″	8′ 11″	8′ 11″	8′ 11″	8′ 11″	8′ 11″	8′ 11″	8′ 11″	8′ 11″	8′ 11″
Width on floor	5′ 2″	5′ 5″	6′ 1″	7′ 1″	7′ 7″	8′ 1″	8′ 8″	9′ 3″	9′ 10″	10′ 6″
Height to where grain enters	7′ 11″	7′ 11″	7′ 11″	7′ 11″	8′ 2″	8′ 5″	8′ 8″	8′ 11″	8′ 2″	8′ 2″
Height to center of drive pulley (fan shaft)	6′ 3″	6′ 3″	6′ 3″	6′ 3″	6′ 3″	6′ 3″	6′ 3″	6′ 3″	6′ 3″	6′ 3″
Height to center of eccentric shaft	3′ 0″	3′ 0″	3′ 0″	3′ 0″	3′ 0″	3′ 0″	3′ 0″	3′ 0″	3′ 0″	3′ 0″
Speed — R. P. M. of fan (drive) shaft	500	500	500	500	500	500	500	500	500	500
Speed — R. P. M. of eccentric shaft	550	550	550	550	550	550	550	550	550	550
Size of drive pulley	12″x6″	14″x6″	14″x7″	16″x7″	16″x7″	16″x7″	16″x7″	16″x7″	16″x8″	16″x8″
CAPACITY Bushels, per hour — Wheat—Fine screens	550	700	850	1150	1300	1500	1800	2100	2400	2700
Wheat—Medium screens	900	1150	1400	1900	2200	2500	3000	3500	4000	4500
Wheat—Coarse screens	1800	2300	2800	3800	4400	5000	6000	7000	8000	9000
Corn or Oats—Coarse screens	1350	1750	2100	2750	3300	3800	4500	5200	5900	6600
Approximate shipping weight, pounds	4000	4400	4900	5500	6000	6500	7100	7800	8400	9100

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	6	7	8	9	10	11	12	13	14	15
Fan outlet openings, depth	15½″	16¼″	16¼″	16¼″	16¼″	16¼″	16¼″	16¼″	19¼″	19¼″
Fan outlet openings, width	10½″	11″	12¼″	12¼″	12¼″	12¼″	13¼″	14¼″	14¼″	15¼″
Total square inches for both fan outlets	326	359	398	398	398	398	431	463	548	587

CONSTRUCTION—EQUIPMENT

Shoes are inter-reinforced design—so constructed Automatic Traveling Brush Sieve Cleaners can easily be attached at any time——Screens are of interchangeable sections, quickly removable (front end draw); the frames are of uncommonly heavy construction, accurately sized by templet form-up and are covered with heavy metal——Fan and eccentric shafts are of heaviest practicable size—of best quality steel, accurately machine sized, and—these operate in heavy-duty, dust-proof, self-oiling bearings, see illustration page 10. ("Chain" or "ring" oiler bearings at regular list; self-aligning ball bearings for the fan shaft at extra price, see page 11)——Motion imparted to shoes by four heavy-duty eccentrics, adjustable, dust-proof, self-oiling type as illustrated page 8——Feed hoppers are equipped with self-releasing feed gates and revolving force feeder——A novel spreading device feeds grain evenly full width of screens——Fans are low-speed, large diameter, one-piece design——Air expansion and settlings chamber are our exclusive, deep area type, fitted with Internal Compensating Regulators, see page 9——General construction, see specific listing page 5.



"MONITOR"

TWO-STREAM WAREHOUSE AND ELEVATOR SEPARATOR

Double End (Self-Balancing) Receiving Cleaner

THEIR growing popularity reflects the satisfaction of many large capacity handlers who have found these "two-stream" "Monitors" the perfect answer for the greatest capacity to the smallest space and power. Adaptable to a wide range of service in handling wheat, corn, barley, oats, or rye, their extraordinarily large capacity is steadily maintained under performance that satisfies the severely critical operator.

Virtually two machines in one frame—each side working independently of the other, although in exactly the same manner. On each side grain is delivered by automatic force feed from hopper into suction leg, thence to three runs of screens—"Scalper," "Main" and "Seed"—the former full, the two latter of lesser depth than our standard "Receiving Separators." One* uncommonly thorough air and three superior screen separations are performed. Referring to illustration you will observe the heavy frame construction and compact, simple arrangement throughout—the two end-to-end shoes with grain discharge to center. Both shoes are of equal weight, driven by heavy-duty eccentrics, opposed in pairs, from the large-diameter, centrally located eccentric shaft—a perfect self-balancing drive.

Requiring astonishingly light power and attention these quiet, smooth running, giant capacity Cleaners will, have in fact, enduringly and economically survived the severest, and most exacting service.

Many users employ these machines as "grain coolers"—for which they answer perfectly by removing the screens and employing suction only.

CONSTRUCTION—EQUIPMENT, see page 28.

*NOTE—If desired, furnished with second suction leg, which gives two-air cleaning work, aspirations before and after screen work.

"MONITOR" TWO-STREAM WAREHOUSE AND ELEVATOR ASPIRATOR

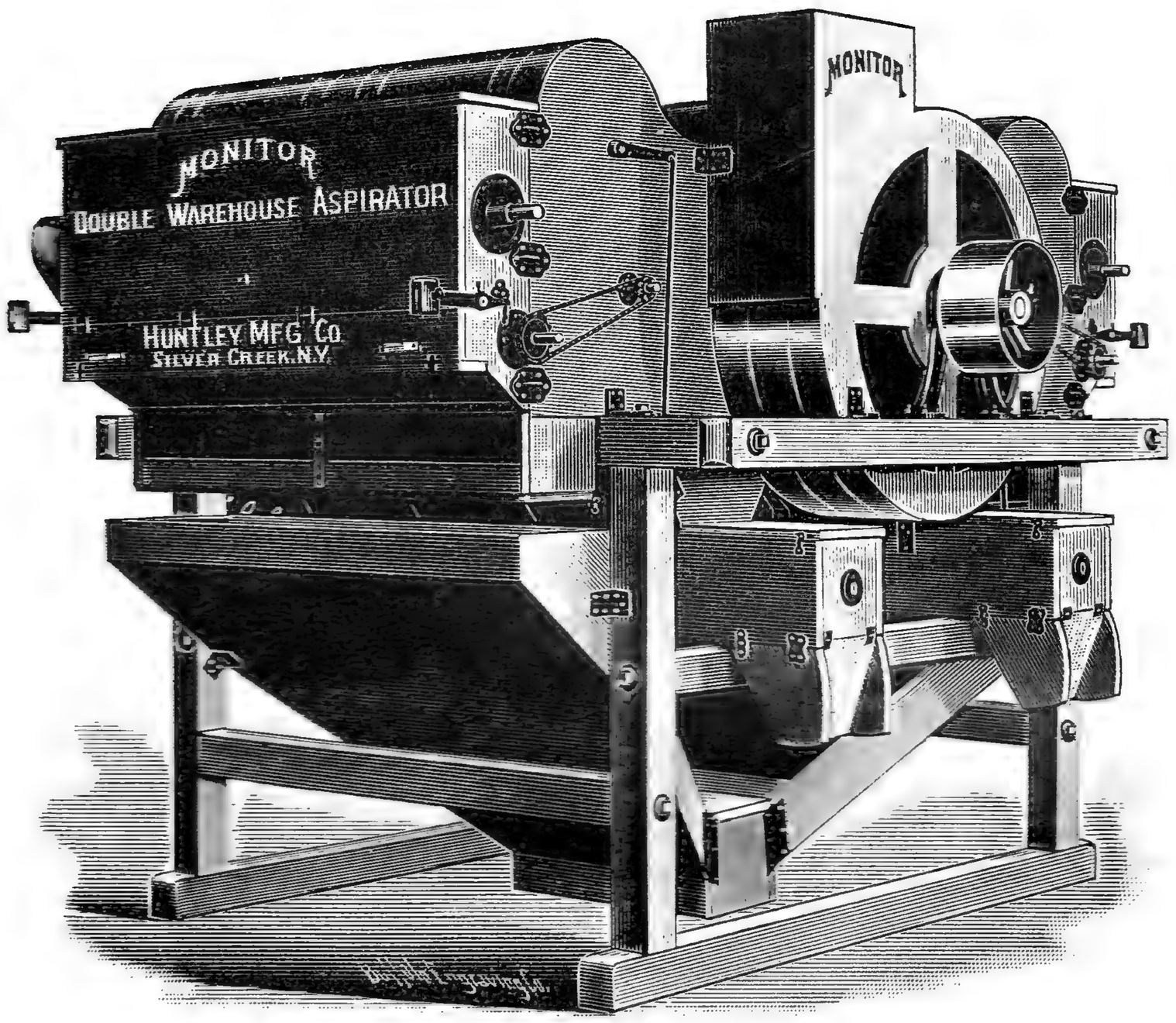
DIMENSIONS, CAPACITIES, PRICES, ETC.

SIZE NO.	6	7	8	9	10	11	12	13	14	15
Extreme height	6′ 9″	6′ 10″	6′ 10″	7′ 8″	7′ 8″	7′ 11″	8′ 2″	8′ 5″	8′ 2″	8′ 2″
Extreme length	9′ 9″	9′ 9″	9′ 9″	11′ 2″	11′ 2″	11′ 2″	11′ 2″	11′ 2″	11′ 2″	11′ 2″
Extreme width	6′ 10″	7′ 6″	8′ 4″	9′ 4″	9′ 10″	10′ 4″	11′ 0″	11′ 8″	12′ 4″	13′ 0″
Length on floor	6′ 7″	6′ 7″	6′ 7″	7′ 8″	7′ 8″	7′ 8″	7′ 8″	7′ 8″	7′ 8″	7′ 8″
Width on floor	4′ 2″	4′ 8″	5′ 2″	6′ 1″	6′ 7″	7′ 1″	7′ 7″	8′ 1″	8′ 7″	9′ 1″
Height to where grain enters	6′ 2″	6′ 2″	6′ 2″	7′ 5″	7′ 8″	7′ 11″	8′ 2″	8′ 5″	7′ 5″	7′ 5″
Height to center of drive pulley (fan shaft)	4′ 10″	4′ 10″	4′ 10″	5′ 9″	5′ 9″	5′ 9″	5′ 9″	5′ 9″	5′ 9″	5′ 9″
Speed—R. P. M. of fan (drive) shaft	500	500	500	500	500	500	500	500	500	500
Size of drive pulley	12″x6″	14″x6″	14″x7″	16″x7″	16″x7″	16″x7″	16″x7″	16″x7″	16″x8″	16″x8″
CAPACITY Bushels, per hour	1000 to 2500	1300 to 3250	1600 to 4000	2200 to 5500	2600 to 6500	3000 to 7500	3500 to 8700	4000 to 10000	4500 to 11250	5000 to 12500
Approximate shipping weight, pounds	2200	2500	2800	3400	3700	4000	4400	4800	5400	6000

"MONITOR" ball bearings supplied, if specified, at extra price.

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	6	7	8	9	10	11	12	13	14	15
Fan outlet openings, depth	15½″	16¼″	16¼″	16¼″	16¼″	16¼″	16¼″	16¼″	19¼″	19¼″
Fan outlet openings, width	10½″	11 ″	12¼″	12¼″	12¼″	12¼″	13¼″	14¼″	14¼″	15¼″
Total square inches for both fan outlets	326	358	398	398	398	398	431	463	548	587



"MONITOR"

TWO-STREAM WAREHOUSE AND ELEVATOR ASPIRATOR

FOR the space taken and power consumed—the greatest capacity in aspirating work. Used with unqualified success for air cleaning of all kinds of grain—a superior outfit for service as a quick, efficient cooler of overheated grain.

Similar to our Two-Stream "Monitor" Separator, page 29—the same improved type of perfect operation force feeding hoppers, the same exclusive principle of air work construction performing, independently on each stream, accurately controlled, ultra uniform separations. As with every "Monitor," the air separations this machine delivers are unmatchable in efficiency and economy. After passing through the suction legs, at each side, grain flows down stationary chutes to a common discharge, centrally located, underneath—conveyors discharge the intermediately purified screenings at side of machine.

Easily operated under pleasing positiveness of control this approved design, perfectly constructed and thoroughly equipped "Monitor" will deliver maximum aspirating at minimum expense.

CONSTRUCTION—EQUIPMENT

The two stationary chutes discharge cleaned grain into box discharge, near floor——Fan shaft is of largest practicable size, high grade steel accurately machine sized and—this shaft operates in heavy-duty, dust-proof, self-oiling bearings—see illustration page 10. ("Chain" or "ring" oilers at regular price, or self-aligning ball bearings for fan shaft at extra price—see page 11)——Feed hoppers are equipped with self-releasing feed gates and revolving force feeder——Fans are low speed, large diameter, one-piece design——Air expansion and settlings chamber are our exclusive, deep-area type fitted with Internal Compensating Regulators, see page 9——For frame and general construction, see page 5.

COMBINED

CORN AND GRAIN CLEANERS

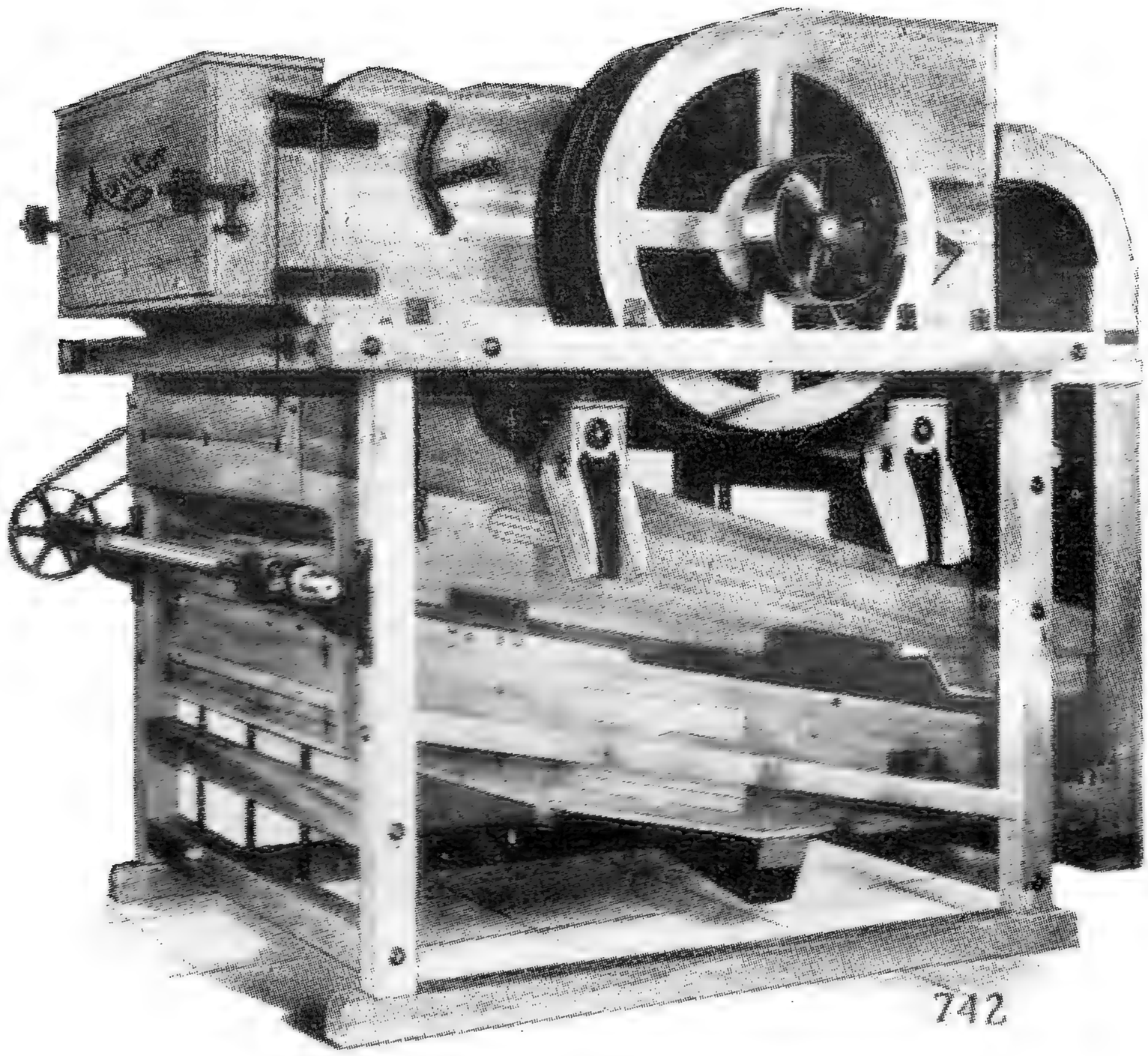
EVERYWHERE throughout the corn growing sections one type of general-purpose receiving cleaner stands pre-eminently supreme, one make in this class is the broadly acknowledged best—the "*Monitor*," the *original*, America's first and most widely demonstrated successful "Combined" Corn and Grain Cleaners. As they were the first, so have they consistently outperformed and outsold every competing, imitative cleaner—today there are more "Monitor" *Combined* in use than the total of all other makes. and then some.

Our leadership in the "Combined" field comes from the earliest introduction of these models and their continued supremacy, clean cut and convincingly emphasized to hundreds of users who employ nothing but the best for their cleaning work. "Monitors" are genuinely, supremely efficient machines, adaptable to the widest range of cleaning and without a near second in economy.

With a "Monitor" *Combined* cleaning is a safe, simple and dependable procedure. The simplified arrangement, trueness of adjustment and free access give astonishing ease of regulation—a quick responsiveness and positiveness that conforms with every reasonable requirement. Materials used are of the highest standards—workmanship, fit and finish the best in grain cleaners—"Monitor" standard. Space restricts full, specific listing of these machines' *known* superlative features—we must ask you to read pages 5, 9 and 13: while differing in screen arrangement the air work on all "Monitors" is the same—widely excelling in uniform efficiency and economy on every range of corn or small grains cleaning. The large-area screens perform their functions with unfailing regularity and true definition.

In their satisfyingly low power consumption and enduringly dependable operation these smooth, quiet running *Combined* "Monitors" embody those test-proven qualities of our standard grain Receiving Cleaners and also have necessary special construction, as explained hereafter, for "combined" cleaning.

Two styles, our "A" and "B," are illustrated and listed—each has its demand, both are the first and last word in proven service—each is endowed with unobservable details of fitness for the service intended, hidden values that benefit the user heavily.



"MONITOR" COMBINED CORN AND GRAIN CLEANER

Compound (Self-Balancing) Receiving Cleaner

STYLE "A"

VERILY, instead of one—it's two, an incomparably efficient corn cleaner—a wonderfully perfect grain cleaner. Handles corn and cob direct from the sheller, also every ordinary range of first cleaning, or reclean-ing of oats, wheat, barley, rye, etc. It is equipped with two shoes, suspended one over the other, operated by heavy eccentrics, opposed in pairs, driven by one heavy-duty eccentric shaft—perfect self-balancing motion. Each shoe carries two deep runs of screens, of interchangeable sections—the upper set for cleaning corn or oats—the lower set suitable for wheat or small grain. While with a standard "Receiving" Cleaner a change from one kind of cleaning to any other necessitates a stop to change screens, with this "Combined" the operator merely sets over the two-way distributor valve and diverts the corn, or grain, to either set of screens as desired, quickly adjusts the air control to suit requirements and proceeds—without having to stop machine for the change. The machine is self-cleaning—no trouble from "mixing." Always ready for two kinds of cleaning without a change of screens this machine gives great advantages where frequent changes and quick shifts are the rule.

Four cleaning operations—two air separations, one before and after the screens, the same high-efficiency air cleaning that distinguishes "Monitors" from all other Cleaners; two screen cleanings, a rare evenness of perfect separations that satisfies the particular operator—see "Operation," page 35. Nicety of thorough control, ultra-efficient air and screen performance, wide range adaptability, unequalled economy and proven durability are virtues strongly proclaimed by prominent users.

Read page 32 carefully.

Continued pages 34-35

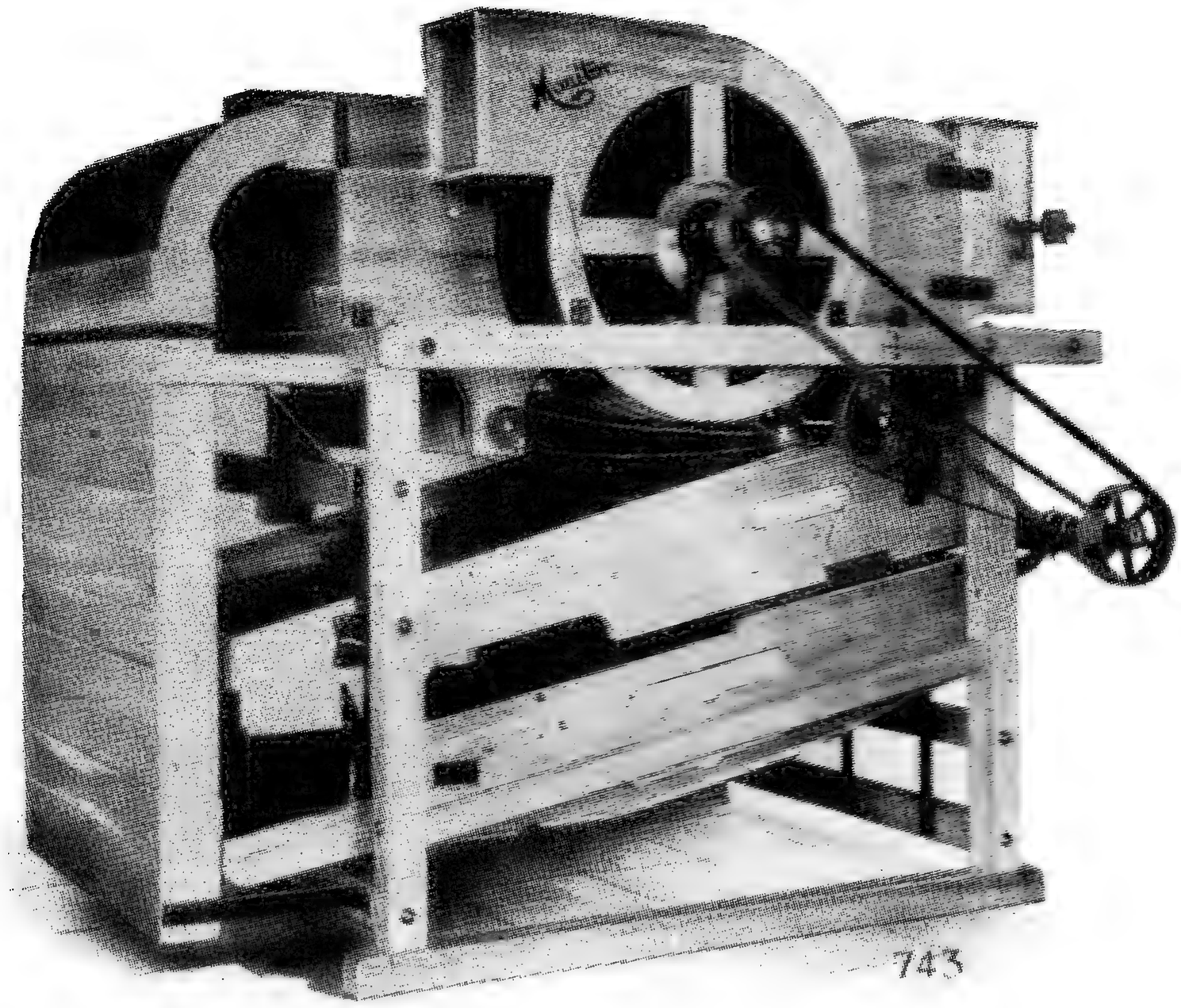
"MONITOR" COMBINED CORN AND GRAIN CLEANER—STYLE "A"

DIMENSIONS, CAPACITIES, PRICES, ETC.

SIZE NO.	2	3	4	5	6	7	8	9	10	11
Extreme height	7′ 2″	7′ 2″	8′ 10″	8′ 10″	8′ 10″	9′ 1″	9′ 1″	9′ 1″	9′ 1″	9′ 1″
Extreme length	8′ 2″	8′ 2″	10′ 4″	10′ 4″	10′ 4″	10′ 4″	10′ 4″	10′ 4″	10′ 4″	10′ 4″
Extreme width	5′ 3″	5′ 9″	7′ 0″	7′ 6″	8′ 0″	9′ 0″	9′ 6″	10′ 0″	10′ 7″	11′ 1″
Length on floor	6′ 3″	6′ 3″	8′ 0″	8′ 0″	8′ 0″	8′ 0″	8′ 0″	8′ 0″	8′ 0″	8′ 0″
Width on floor	3′ 11″	4′ 5″	4′ 11″	5′ 5″	5′ 11″	6′ 5″	6′ 11″	7′ 5″	7′ 11″	8′ 5″
Height to where grain enters	7′ 2″	7′ 2″	8′ 6″	8′ 6″	8′ 6″	8′ 6″	8′ 6″	8′ 9″	8′ 9″	9′ 0″
Height to center of drive pulley (fan shaft)	5′ 6″	5′ 6″	6′ 11″	6′ 11″	6′ 11″	7′ 0″	7′ 0″	7′ 0″	7′ 0″	7′ 0″
Height to center of eccentric shaft	3′ 0″	3′ 0″	3′ 6″	3′ 6″	3′ 6″	3′ 6″	3′ 6″	3′ 6″	3′ 6″	3′ 6″
Speed — R. P. M. of fan (drive) shaft	650	650	650	650	650	600	600	600	600	600
Speed — R. P. M. of eccentric shaft	550	550	500	500	500	500	500	500	500	500
Size of drive pulley	10″x5″	10″x5″	12″x6″	12″x6″	14″x6″	14″x6″	16″x6″	16″x6″	16″x7″	16″x7″
CAPACITY Bushels, per hour — Wheat—Medium screens	300	400	550	700	850	1050	1300	1550	1800	2100
CAPACITY Bushels, per hour — Corn or Oats—Medium screens	225	275	400	550	700	900	1100	1300	1500	1700
Approximate shipping weight, pounds	2360	2500	3000	3500	4000	4500	4800	5200	5600	6000

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	2	3	4	5	6	7	8	9	10	11
Fan outlet openings, depth	12½″	12½″	14½″	14½″	14½″	16¼″	16¼″	16¼″	16¼″	16¼″
Fan outlet openings, width	8″	8″	10½″	10½″	11½″	12¼″	12¼″	12¼″	12¼″	12¼″
Total square inches for both fan outlets	200	200	305	305	333	398	398	398	398	398



"MONITOR" COMBINED CORN AND GRAIN CLEANER

Compound (Self-Balancing) Receiving Cleaner

STYLE "A"

Continued from pages 32-33

Cut above illustrates the discharge end and *left-hand* side of machine. Note the large-area screens, drive from fan to eccentric shaft—the heavy outlines of construction throughout. See "Drive, Fan and Screenings Discharge to Suit Your Location," page 12—see diagrams page 50.

OPERATION

Feed hopper is equipped with our perfected non-choke feeder, which automatically and uniformly delivers either corn or grain into the first air suction leg. Thence, delivery is by gravity, if corn or oats, to the upper of two screen runs in top shoe—if wheat or small grains to upper of two runs of screens in lower shoe; after the two large-area screen operations delivery is into second suction leg for final air cleaning. All air-removed trash and screenings (except light dust which discharges from fans) is delivered at side of machine by conveyors attached to settlings chamber tips. Cobs, coarse heavy impurities, small impurities, seeds, etc., are discharged from separate spouts.

NOTE—When specified we furnish endless-belt cob delivery, at extra price—instead of cob spouts as illustrated.

CONSTRUCTION—EQUIPMENT

Shoes carrying screens are inter-reinforced design so constructed Automatic Sieve Cleaners can be attached to all (except top) screens whenever required——Screens are of interchangeable sections, easily removable; the frames are heavily constructed, built up in templets to insure perfect fit—covered with durable metal——Fan and eccentric shafts are uncommonly heavy, high-grade steel, accurately machine sized—these operate in heavy-duty, self-oiling bearings—see illustration page 10. ("Chain" or "ring" oilers at standard price; self-aligning ball bearings for fan shaft at extra price—see page 11)——Shaking motion imparted to shoes by four heavy-duty eccentrics, adjustable, dust-proof, self-oiling design illustrated page 8——Feed hopper has self-adjusting, non-choke feeder——A novel spreading device feeds grain evenly across full width of screens——Fans are low speed, large diameter, one-piece type——Adjustable escapement gates control suction on stream discharging from shoe into second leg——Exclusive design of deep-area expansion chambers and Internal Compensating Air Regulators—see page 9——Frame and general construction, see page 5.

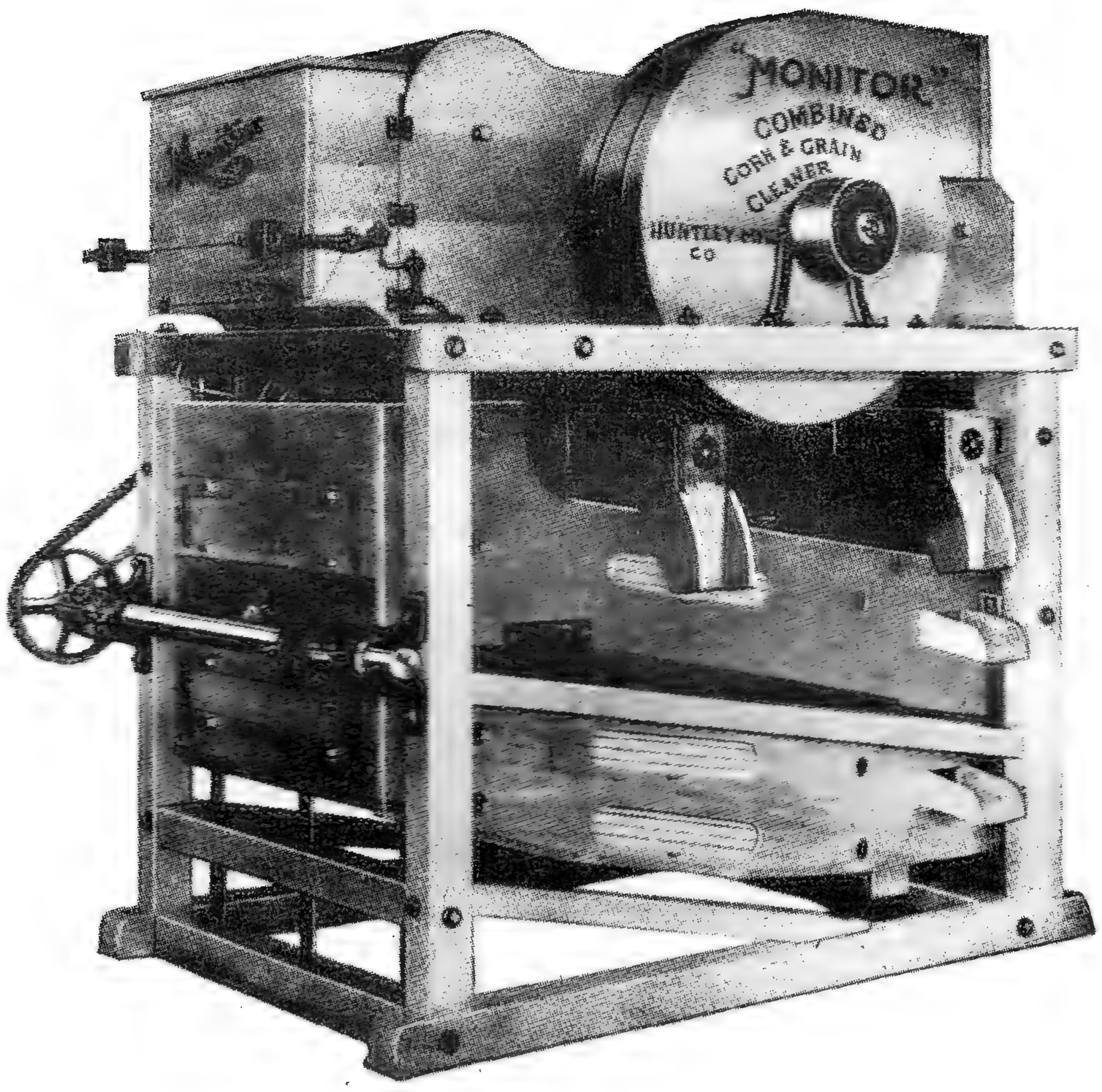
"MONITOR" COMBINED CORN AND GRAIN CLEANER—STYLE "B"

DIMENSIONS, CAPACITIES, PRICES, ETC.

SIZE NO.	2	3	4	5	6	7	8	9	10	11
Extreme height	8′ 1″	8′ 1″	8′ 1″	8′ 1″	8′ 1″	8′ 10″	8′ 10″	9′ 10″	9′ 10″	9′ 10″
Extreme length	8′ 2″	8′ 2″	8′ 2″	8′ 2″	8′ 2″	9′ 2″	9′ 2″	10′ 7″	10′ 7″	10′ 7″
Extreme width	4′ 8″	5′ 11″	6′ 7″	7′ 2″	7′ 6″	8′ 9″	9′ 5″	9′ 11″	10′ 5″	11′ 0″
Length on floor	7′ 2″	7′ 2″	7′ 2″	7′ 2″	7′ 2″	8′ 0″	8′ 0″	9′ 4″	9′ 4″	9′ 4″
Width on floor	3′ 11″	4′ 5″	5′ 0″	5′ 6″	5′ 10″	6′ 11″	7′ 5″	7′ 11″	8′ 5″	8′ 11″
Height to where grain enters	6′ 11″	6′ 11″	6′ 11″	7′ 4″	7′ 5″	8′ 4″	8′ 4″	9′ 2″	9′ 2″	9′ 2″
Height to center of drive pulley (fan shaft)	6′ 3″	6′ 3″	6′ 3″	6′ 3″	6′ 3″	6′ 9″	6′ 9″	7′ 5″	7′ 5″	7′ 5″
Height to center of eccentric shaft	3′ 1″	3′ 1″	3′ 1″	3′ 1″	3′ 1″	3′ 6″	3′ 6″	4′ 0″	4′ 0″	4′ 0″
Speed — R. P. M. of fan (drive) shaft	650	650	600	600	600	600	600	600	600	600
Speed — R. P. M. of eccentric shaft	550	550	500	500	500	500	500	500	500	500
Size of drive pulley	10″x5″	10″x5″	12″x6″	12″x6″	14″x6″	14″x7″	14″x7″	16″x7″	16″x7″	16″x7″
CAPACITY Bushels, per hour — Wheat—Medium screens	300	375	500	650	800	1000	1250	1500	1750	2000
CAPACITY Bushels, per hour — Corn or Oats—Medium screens	225	275	400	550	700	900	1100	1300	1500	1700
Approximate shipping weight, pounds	2500	2700	3250	3700	4250	4800	5000	5500	5900	6300

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	2	3	4	5	6	7	8	9	10	11
Fan outlet openings, depth	14½″	14½″	14½″	14½″	14½″	16¼″	16¼″	19¼″	19¼″	19¼″
Fan outlet openings, width	8″	8″	9″	10″	10½″	11″	12¼″	12¼″	12¼″	12¼″
Total square inches for both fan outlets	232	232	261	290	305	357	398	472	472	472



"MONITOR" COMBINED CORN AND GRAIN CLEANER

Compound (Self-Balancing) Receiving Cleaner

STYLE "B"

VERY similar and equally efficient to the "A" "Combined," pages 32-35; it embodies all the strikingly good features of the "A" type, but has different top shoe and spout construction—this "B" machine being designed for handling corn that has previously been cleaned, after shelling. As a recleaner for corn—or for any standard requirement in cleaning oats, wheat, barley, rye, etc., it affords every advantage listed for the "A" on preceding pages—both lead in their respective classes as everlastingly efficient, simple and economical "Combined" Cleaners. Our success with both Models is in direct ratio to the years of service rendered—a near equal for either has yet to prove itself.

Comparing above illustration with those for the "A" on pages 33-35 you will observe this "B" does not have the whole-cob spouts, nor the same top shoe construction as the "A" type. See pages 32, 33, 34 and 35 for complete description of this machine's construction, operation and advantages.

CONSTRUCTION—EQUIPMENT

Same as for the "A." See page 35—this "B" and the "A" Models are very similar with exception of top shoes and spouts, as explained above.

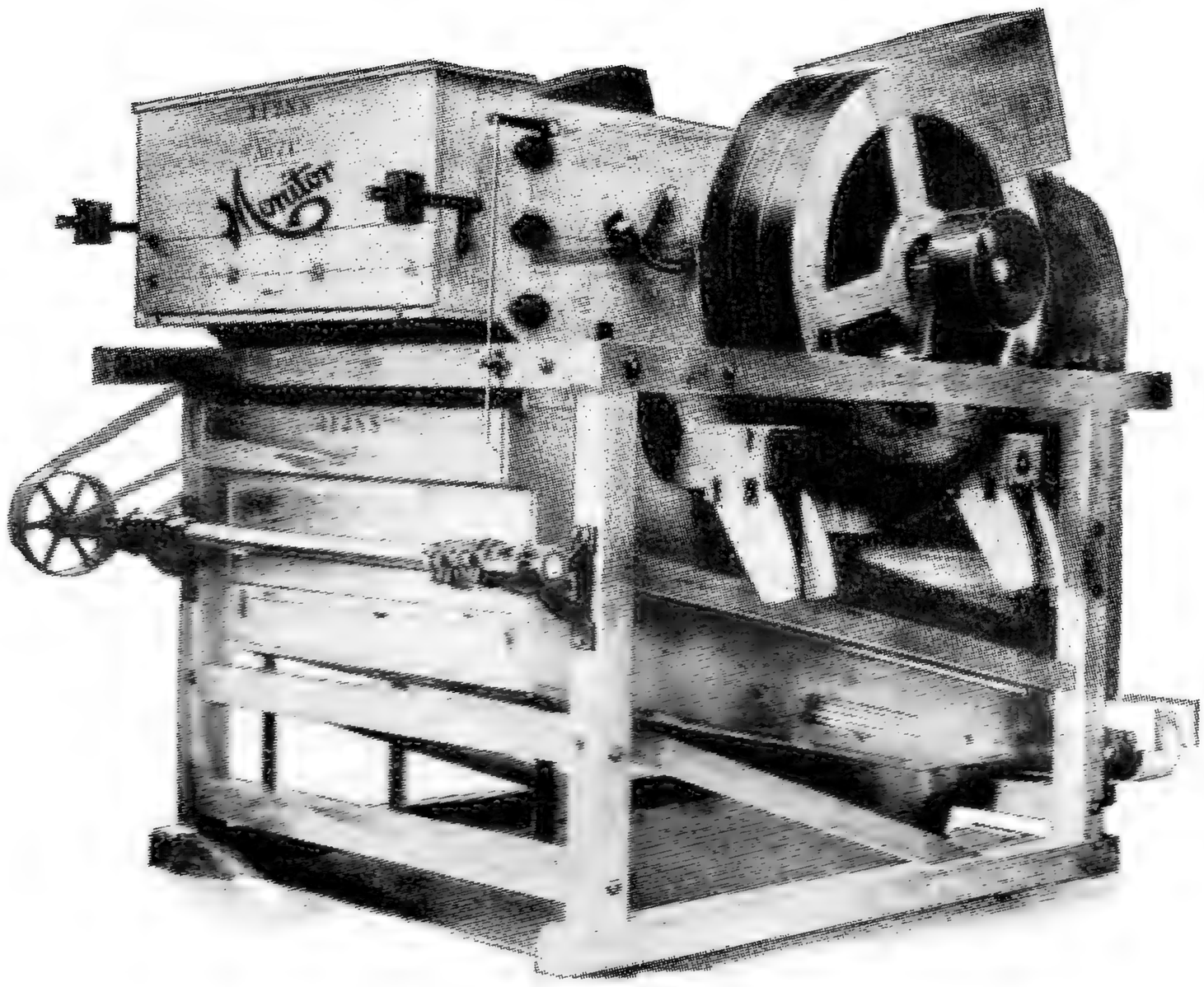
"MONITOR" CORN-COB AND GRAIN CLEANER—STYLE "D"

DIMENSIONS, CAPACITIES, PRICES, ETC.

SIZE NO.	2	3	4	5	6	7	8	9	10	11
Extreme height	8′ 0″	8′ 0″	8′ 1″	8′ 1″	8′ 1″	8′ 4″	8′ 4″	8′ 4″	8′ 4″	8′ 4″
Extreme length	8′ 2″	8′ 2″	10′ 4″	10′ 4″	10′ 4″	10′ 4″	10′ 4″	10′ 4″	10′ 4″	10′ 4″
Extreme width	5′ 3″	5′ 9″	7′ 0″	7′ 6″	8′ 0″	9′ 0″	9′ 6″	10′ 0″	10′ 7″	11′ 1″
Length on floor	6′ 3″	6′ 3″	8′ 0″	8′ 0″	8′ 0″	8′ 0″	8′ 0″	8′ 0″	8′ 0″	8′ 0″
Width on floor	3′ 11″	4′ 5″	4′ 11″	5′ 5″	5′ 11″	6′ 5″	6′ 11″	7′ 5″	7′ 11″	8′ 5″
Height to where grain enters	7′ 0″	7′ 0″	7′ 9″	7′ 9″	7′ 9″	7′ 9″	7′ 9″	8′ 0″	8′ 0″	8′ 3″
Height to center of drive pulley (fan shaft)	5′ 10″	5′ 10″	6′ 2″	6′ 2″	6′ 2″	6′ 3″	6′ 3″	6′ 3″	6′ 3″	6′ 3″
Height to center of eccentric shaft	3′ 2″	3′ 2″	3′ 6″	3′ 6″	3′ 6″	3′ 6″	3′ 6″	3′ 6″	3′ 6″	3′ 6″
Speed — R. P. M. of fan (drive) shaft	650	650	650	650	650	600	600	600	600	600
Speed — R. P. M. of eccentric shaft	550	550	500	500	500	500	500	500	500	500
Size of drive pulley	10″x5″	10″x5″	12″x6″	12″x6″	14″x6″	14″x6″	16″x6″	16″x6″	16″x7″	16″x7″
CAPACITY Bushels, per hour — Corn and Cob	200	300	400	550	700	900	1100	1300	1500	1700
CAPACITY Bushels, per hour — Wheat—Medium screens	275	400	550	700	850	1050	1300	1550	1800	2100
Approximate shipping weight, pounds	2350	2600	3100	3500	3900	4400	4700	5200	5500	5900

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	2	3	4	5	6	7	8	9	10	11
Fan outlet openings, depth	12½″	12½″	14½″	14½″	14½″	16¼″	16¼″	16¼″	16¼″	16¼″
Fan outlet openings, width	8″	8″	10½″	10½″	11½″	12¼″	12¼″	12¼″	12¼″	12¼″
Total square inches for both fan outlets	200	200	305	305	333	398	398	398	398	398



"MONITOR" CORN-COB AND GRAIN CLEANER

Compound (Self-Balancing) Receiving Cleaner

STYLE "D"

CORN, cob, more or less husk and trash as it comes from the sheller—those familiar with the requirements in cleaning such mixtures will agree with us that the machine which performs the work thoroughly, dependably, economically and at good capacity is a greatly desired outfit—to which requirements this "Monitor" answers perfectly: add to this the further consideration that the same machine, with a change of screens, is a genuinely efficient grain cleaner and you have this Style "D" rightly valued. As an all-purpose machine we unhesitatingly offer it as the best in high-quality, high-efficiency Cleaners for the grain dealer who handles corn mostly.

Two-air and two-screen cleaning operations: the two shoes, each carrying one deep run of screens are our one-over-the-other construction, each operated by two heavy eccentrics, opposed in pairs, driven by one uncommonly large shaft—a self-balancing, quiet running drive that insures trueness in screen separations. Two powerful, accurately controlled air suctions—one before and after the screen operations—perform thorough, non-wasteful work—unequalled uniformity that characterizes all "Monitor" two-outside-fans suction air cleaning. Read pages 5, 9 and 13, describing interesting features of these machines.

NOTE: In above illustration is shown endless-belt carrier cob delivery—this is furnished at extra charge—regular equipment covers spouts for discharge of cobs.

CONSTRUCTION—EQUIPMENT

Shoes carrying screens are inter-reinforced construction—Sieve cleaners can be attached to screens in lower shoe whenever desired——Screens are of interchangeable sections, easily removable: the frames of heavy construction, formed up in templets to insure trueness of fit—covered with durable metal——Fan and eccentric shafts are heaviest practicable size, accurately machine finished—both operate in heavy-duty, dust-proof, self-oiling bearings (see page 10). Ball bearings, for fan shaft, at extra charge if preferred—see page 11——Shoes driven by four large eccentrics, adjustable, dust-proof, self-oiling—see page 8——Feed hopper has automatic, self-releasing feeder——"Monitor" deep-area design settlings chambers and Internal Compensating Air Regulators—see page 9——Fans are low speed, large-diameter, one-piece type——Heavy frame and general construction—see page 5.

"MONITOR" BARLEY SEPARATOR—STYLE "E"

DIMENSIONS, CAPACITIES, PRICES, ETC.

(ALSO STYLES "Ee," "Eee," "Eeee")

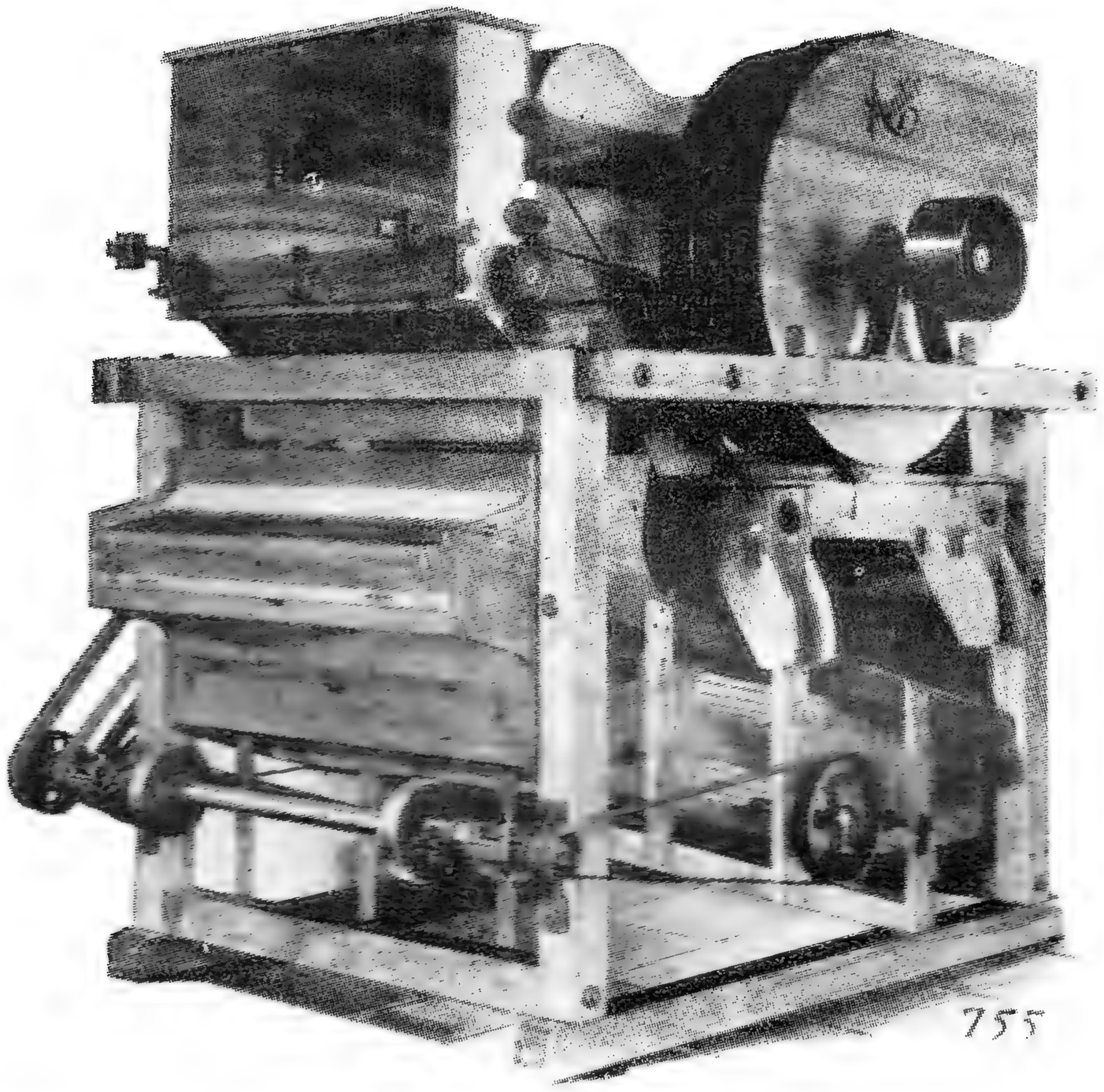
SIZE NO.	1	2	3	4	5	6	7	8	9	10	11
Extreme height	5′ 6″	6′ 1″	6′ 6″	7′ 1″	7′ 7″	8′ 0″	8′ 3″	8′ 3″	9′ 2″	9′ 2″	2″
Extreme length	5′ 4″	6′ 5″	6′ 9″	7′ 0″	7′ 6″	8′ 2″	8′ 11″	8′ 11″	10′ 3″	10′ 3″	10′ 3″
Extreme width	4′ 1″	4′ 8″	5′ 4″	6′ 2″	6′ 8″	7′ 2″	7′ 6″	8′ 3″	9′ 3″	9′ 9″	10′ 3″
Length on floor	4′ 8″	5′ 4″	5′ 8″	6′ 2″	6′ 7″	7′ 2″	7′ 10″	7′ 10″	9′ 0″	9′ 0″	9′ 0″
Width on floor	2′ 7″	3′ 2″	3′ 8″	4′ 2″	5′ 0″	5′ 1″	5′ 6″	6′ 1″	7′ 1″	7′ 7″	8′ 1″
Height to where barley enters	5′ 1″	5′ 5″	5′ 10″	6′ 2″	6′ 10″	7′ 2″	7′ 11″	7′ 11″	8′ 5″	8′ 8″	8′ 11″
Height to center of drive pulley (fan shaft)	4′ 3″	4′ 7″	4′ 11″	5′ 4″	5′ 8″	6′ 0″	6′ 2″	6′ 2″	6′ 9″	6′ 9″	6′ 9″
Height to center of eccentric shaft	10″	1′ 0″	1′ 2″	1′ 4″	1′ 6″	1′ 7″	2′ 0″	2′ 0″	2′ 2″	2′ 2″	2′ 2″
Speed — R. P. M. of fan (drive) shaft	600	600	600	550	550	500	525	525	525	550	575
Speed — R. P. M. of eccentric shaft	600	600	600	575	550	550	550	550	525	525	500
Size of drive pulley	7″x5″	7″x5″	8″x5″	10″x5″	12″x5″	12″x6″	14″x6″	14″x7″	16″x7″	16″x7″	16″x7″
CAPACITY Bushels, per hour — Fine screens	40	60	100	150	250	350	500	650	800	900	1100
CAPACITY Bushels, per hour — Coarse screens	50	100	200	300	500	750	1000	1250	1500	1750	2000

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	1	2	3	4	5	6	7	8	9	10	11
Fan outlet openings, depth	9″	11½″	12½″	13½″	13½″	15½″	16¼″	16¼″	19¼″	19¼″	19¼″
Fan outlet openings, width	6″	7″	8″	9″	10″	10½″	11″	12¼″	12¼″	12¼″	12¼″
Total square inches for both fan outlets	108	161	200	243	290	326	358	398	472	472	472

OPERATION "MONITOR" BARLEY SEPARATORS

From the feed hopper barley is mechanically delivered in an even stream to suction leg for first air separation, where wild oats, light screenings and dust are lifted by the air suction and drawn into settlings chamber; here they are purified by an intermediate air separation—dust and chaff going to fan discharge; the clean screenings gravitate to conveyor, with delivery at side of machine. Barley drops through suction leg onto "Scalper" which throws off coarse trash, thence to adjustable spreaders, which deliver it full width of "Main" cleaning screens, which remove impurities larger in size than barley. The barley passes *through* the "Main" screen perforations onto the "Seed" screens, which remove broken barley, foul seeds and fine dirt. The stream of barley travels full length of "Seed" screen tailing at lower end, through adjustable gate, into second suction leg where oats and "shoe peg" barley are lifted by the air currents and deposited in settlings chamber—to be delivered by conveyor at side of machine.



"MONITOR" BARLEY SEPARATOR—STYLE "E"

"Single Shoe" Receiving Cleaner

INCOMPARABLE efficiency—the reason for more barley being cleaned in elevators, malt houses and breweries by "Monitors" than other Cleaners. Their more consistent performance, their unparalleled accuracy in both air and screen separations and greater range of adaptability merit the supremacy everywhere conceded. "Monitor" Air Separations are the same for the four Models shown on this and following pages—large, low-speed fans, our exclusive construction of large-area air expansion chambers and Internal Compensating Regulators develop air suction unequalled for true uniformity—such that we unhesitatingly *guarantee* the removal of *more* wild oats and "shoe peg" barley with *less waste* than any other machine whatsoever. Large screen surfaces, advanced shaking shoe construction and drive means, for every user, the most in screen separations efficiency and endurance. Heavy construction, unhurried workmanship and finish, accessibility, simple, positive adjustment and control are pleasing features of these light powered, smooth operating "Monitors." Air (2) and screen (3) operations described page 40. See pages 5, 9 and 13.

CONSTRUCTION—EQUIPMENT

Shoe is "one-piece," inter-reinforced construction, counterbalanced in motion by counter-weight flywheels attached to eccentric shaft——Automatic, adjustable traveling brush sieve cleaners operate under full surface of "Seed" screens——Screens are of interchangeable sections, easily removable (front end draw): the frames are exceptionally heavy construction, accurately sized by forming in templets—covered with durable metal——Fan and eccentric shafts are uncommonly heavy, of best quality steel, machine sized and—these operate in heavy-duty, self-oiling, dust-proof bearings—see page 10. (Ball bearings, page 11, for fan shaft, at extra price)——Shoe driven by two heavy, dust-proof, self-oiling eccentrics—see page 8——Feed hopper on smaller sizes has self-adjusting feed gate and vibrating feeder—adjustable slide gate and revolving force feeder for larger machines——Spreading device feeds barley full width of screens——Fans are large-diameter, low-speed, one-piece type——Adjustable escapement gate regulates suction on stream discharging from shoe——See page 9, Compensating Air Regulators—and page 5, Heavy-Service Construction.

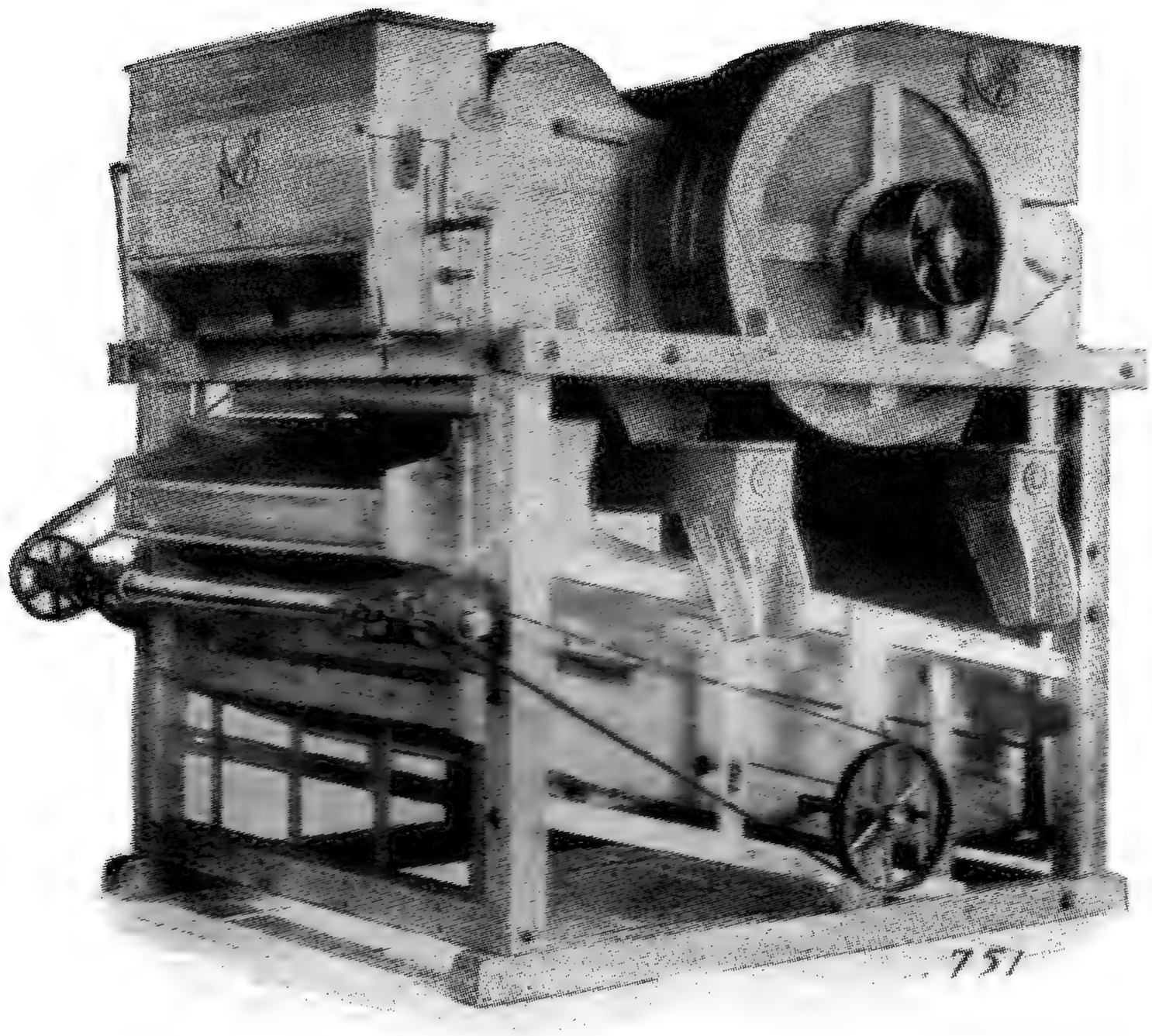
"MONITOR" BARLEY SEPARATOR—STYLE "C"

DIMENSIONS, CAPACITIES, PRICES, ETC. (ALSO STYLES "Cc," "Ccc," "D")

SIZE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Extreme height	5′ 10″	6′ 6″	6′ 8″	7′ 1″	7′ 7″	7′ 10″	8′ 5″	8′ 5″	9′ 2″	9′ 2″	9′ 2″	9′ 2″	9′ 5″	9′ 2″	9′ 2″
Extreme length	5′ 4″	6′ 2″	6′ 6″	7′ 0″	7′ 5″	8′ 0″	9′ 0″	9′ 0″	10′ 5″	10′ 5″	10′ 5″	10′ 5″	10′ 5″	10′ 5″	10′ 5″
Extreme width	4′ 6″	5′ 2″	5′ 8″	6′ 5″	6′ 11″	7′ 5″	7′ 9″	8′ 6″	9′ 8″	10′ 2″	10′ 8″	11′ 5″	12′ 2″	12′ 10″	13′ 6″
Length on floor	4′ 8″	5′ 5″	5′ 9″	6′ 2″	6′ 6″	7′ 1″	7′ 9″	7′ 9″	9′ 1″	9′ 1″	9′ 1″	9′ 1″	9′ 1″	9′ 1″	9′ 1″
Width on floor	3′ 3″	3′ 10″	4′ 4″	4′ 11″	5′ 5″	5′ 10″	6′ 4″	6′ 11″	7′ 11″	8′ 5″	8′ 11″	9′ 5	9′ 11″	10′ 5″	10′ 11″
Height to where barley enters	5′ 6″	5′ 10″	6′ 0″	6′ 4″	6′ 10″	7′ 1″	8′ 2″	8′ 2″	8′ 5″	8′ 8″	8′ 11″	9′ 2″	9′ 5″	8′ 5″	8′ 5″
Height to center of drive pulley (fan shaft)	4′ 6″	5′ 0″	5′ 1″	5′ 5″	5′ 8″	5′ 11″	6′ 5″	6′ 5″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″
Height to center of eccentric shaft	2′ 2″	2′ 3″	2′ 5″	2′ 8″	2′ 8″	2′ 10″	3′ 2″	3′ 2″	2′ 7″	2′ 7″	2′ 7″	2′ 7″	2′ 7″	2′ 7″	2′ 7″
Speed — R. P. M. of fan (drive) shaft	600	600	600	550	550	500	525	525	525	550	575	600	625	525	525
Speed — R. P. M. of eccentric shaft	600	600	600	575	550	550	550	550	525	525	500	500	500	500	500
Size of drive pulley	7″x5″	7″x5″	8″x5″	10″x5″	12″x5″	12″x6″	14″x6″	14″x7″	16″x7″	16″x7″	16″x7″	16″x8″	16″x8″	18″x8″	18″x8″
CAPACITY Bushels, per hour — Fine screens	40	60	100	150	250	350	500	650	800	900	1100	1250	1400	1550	1700
CAPACITY Bushels, per hour — Coarse screens	50	100	200	300	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000
Approximate shipping weight, pounds, Style "C"	1200	1450	1700	2050	2600	3200	3800	4200	5100	5500	6100	6600	7100	7700	8300

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Fan outlet openings, depth	9″	11½″	12½″	13½″	14½″	15½″	16¼″	16¼″	19¼″	19¼″	19¼″	19¼″	19¼″		
Fan outlet openings, width	6″	7″	8″	9″	10″	10½″	11″	12¼″	12¼″	12¼″	12¼″	13¼″	14¼″		
Total square inches for both fan outlets	108	161	200	243	290	326	358	398	472	472	472	510	548		



"MONITOR" BARLEY SEPARATOR

Compound (Self-Balancing) Receiving Cleaner

STYLE "C"

OUR perfected design of one-over-the-other, two-shoe construction: the two suspended shoes are propelled by four heavy-duty eccentrics, opposed in pairs and driven by one uncommonly heavy eccentric shaft —a superior self-balancing motion. Superlative smoothness of operation, quiet running, minimum care and endurance are the outstandingly good features of our "compound" drive. This self-balancing "C" machine is preferable to the Style "E," page 41, in the larger sizes, by reason of its smoother running qualities—otherwise both are the same—**five cleaning operations,** two air and three screen separations. See page 41, note our guarantee thereon—it's worth while.

Automatic Sieve Cleaners—are considered necessary for the utmost successful use of all small-perforations screens—we list them as regular equipment for all "Seed" screens on "Monitor" Barley Cleaners and recommend them for "Main" screen work—their extra cost is trivial compared to the improvement their service gives.

CONSTRUCTION—EQUIPMENT

Same as Style "E," specifically listed page 41 except this "C" Model is a "two-shoe" or "compound" construction as described above. Read "Operation," page 40. See pages 5, 9, 13, listing equipment for similar machines and which is furnished with this Cleaner.

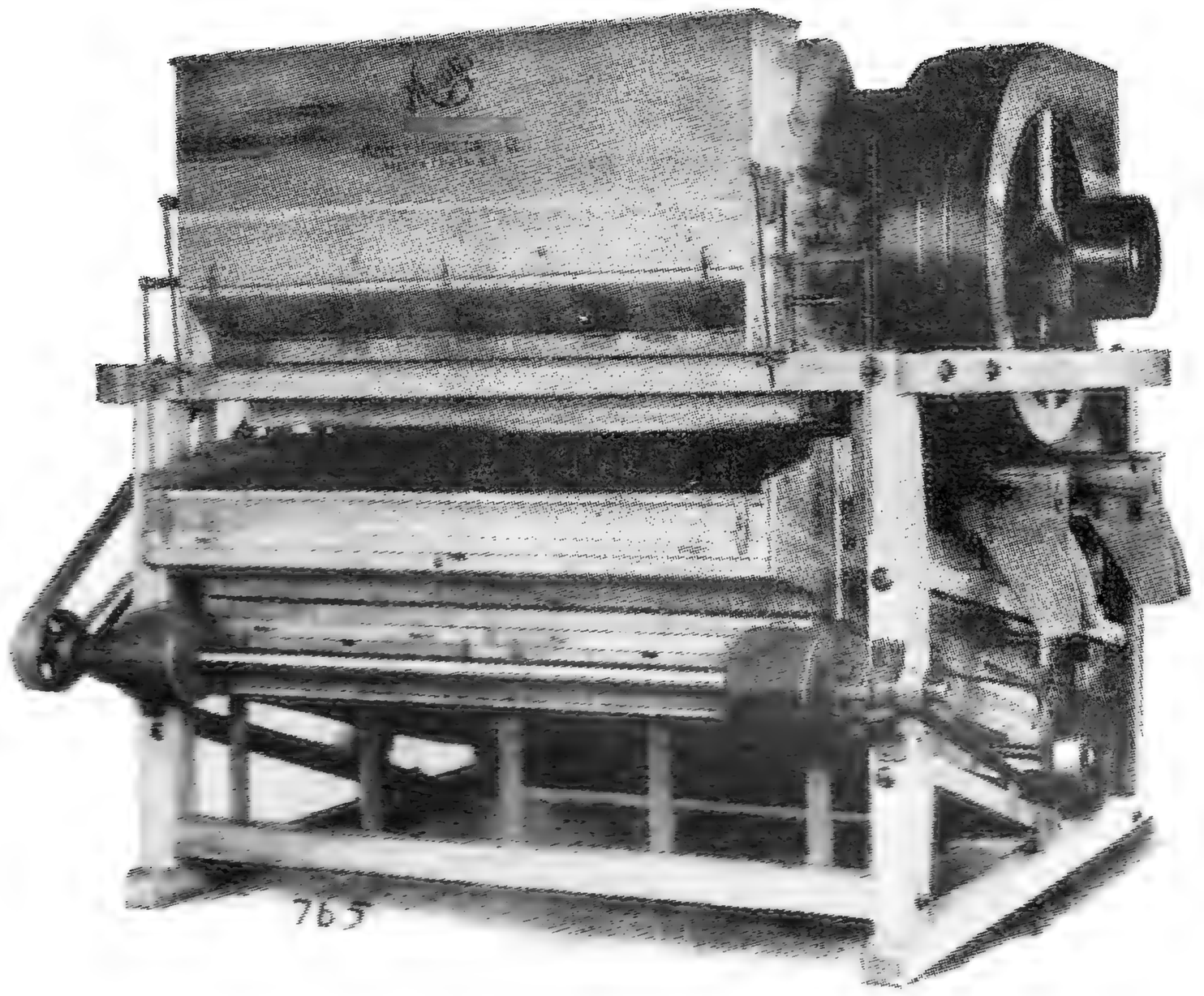
"MONITOR" AUTOMATIC BARLEY SEPARATOR—STYLE "B"

DIMENSIONS, CAPACITIES, PRICES, ETC.

SIZE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Extreme height	5′ 10″	6′ 6″	6′ 8″	7′ 1″	7′ 7″	7′ 10″	8′ 5″	8′ 5″	9′ 2″	9′ 2″	9′ 2″	9′ 2″	9′ 5′	9′ 2″	9′ 2″
Extreme length	5′ 4″	6′ 2″	6′ 6″	7′ 0″	7′ 5″	8′ 0″	9′ 0″	9′ 0″	10′ 5″	10′ 5″	10′ 5″	10′ 5″	10′ 5″	10′ 5″	10′ 5″
Extreme width	4′ 6″	5′ 2″	5′ 8″	6′ 5″	6′ 11″	7′ 5″	7′ 9″	8′ 6″	9′ 8″	10′ 2″	10′ 8″	11′ 5″	12′ 2″	12′ 10″	13′ 6″
Length on floor	4′ 8″	5′ 5″	5′ 9″	6′ 2″	6′ 6″	7′ 1″	7′ 9″	7′ 9″	9′ 1″	9′ 1″	9′ 1″	9′ 1″	9′ 1″	9′ 1″	9′ 1″
Width on floor	3′ 3″	3′ 10″	4′ 4″	4′ 11″	5′ 5″	5′ 10″	6′ 4″	6′ 11″	7′ 11″	8′ 5″	8′ 11″	9′ 5″	9′ 11″	10′ 5″	10′ 11″
Height to where barley enters	5′ 6″	5′ 10″	6′ 0″	6′ 4″	6′ 10″	7′ 1″	8′ 2″	8′ 2″	8′ 5″	8′ 8″	8′ 11″	9′ 2″	9′ 5″	8′ 5″	8′ 5″
Height to center of drive pulley (fan shaft)	4′ 6″	5′ 0″	5′ 1″	5′ 5″	5′ 8″	5′ 11″	6′ 5″	6′ 5″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″
Height to center of eccentric shaft	2′ 2″	2′ 3″	2′ 5″	2′ 8″	2′ 8″	2′ 10″	3′ 2″	3′ 2″	2′ 7″	2′ 7″	2′ 7″	2′ 7″	2′ 7″	2′ 7″	2′ 7″
Speed — R. P. M. of fan (drive) shaft	600	600	600	550	550	500	525	525	525	550	575	600	625	525	525
Speed — R. P. M. of eccentric shaft	600	600	600	575	550	550	550	550	525	525	500	500	500	500	500
Size of drive pulley	7″x5″	7″x5″	8″x5″	10″x5″	12″x5″	12″x6″	14″x6″	14″x7″	16″x7″	16″x7″	16″x7″	16″x8″	16″x8″	18″x8″	18″x8″
CAPACITY Bushels, per hour — Fine screens	40	60	100	150	250	350	500	650	800	900	1100	1250	1400	1550	1700
CAPACITY Bushels, per hour — Coarse screens	50	100	200	300	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000
Approximate shipping weight, pounds	1250	1500	1800	2200	2700	3600	4200	4700	5400	6000	6250	6600	7200	7800	8300

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Fan outlet openings, depth	9″	11½″	12½″	13½″	14½″	15½″	16¼″	16¼″	19¼″	19¼″	19¼″	19¼″	19¼″		
Fan outlet openings, width	6″	7″	8″	9″	10″	10½″	11″	12¼″	12¼″	12¼″	12¼″	13¼″	14¼″		
Total square inches for both fan outlets	108	161	200	243	290	326	358	398	472	472	472	510	548		



"MONITOR" BARLEY SEPARATOR

Compound (Self-Balancing) Drive—Automatic

STYLE "B"

EVENNESS unequalled—their consistently perfect air and screen performance a revelation to every user. As they are the most thoroughly equipped in perfected details of design and construction so are these "Automatic" Models the simplest operated and most inexpensively maintained machines for every standard requirement in barley cleaning. Seldom requiring attention and taking surprisingly light power these simple, sturdy, smooth running, quick responding, true control "Monitors" clean with unvarying uniformity and unequalled economy—unfailingly correct service at any desired standard, automatically delivered.

Five cleaning operations—two accurately controlled, non-wasteful air separations, one before and after the screen work—unparalleled efficiency, see *guarantee*, page 41. Three runs of screens remove, with matchless regularity, trash and impurities larger, foul seeds, sand and foreign matter smaller than barley—see "Operation," page 40. This is our Style "C," page 43—with sieve cleaners under *both* "Main" and "Seed" screens, and also having Disc Oiler Eccentric Drive—see pages 6 and 7. Read pages 5, 9 and 13 carefully.

CONSTRUCTION—EQUIPMENT

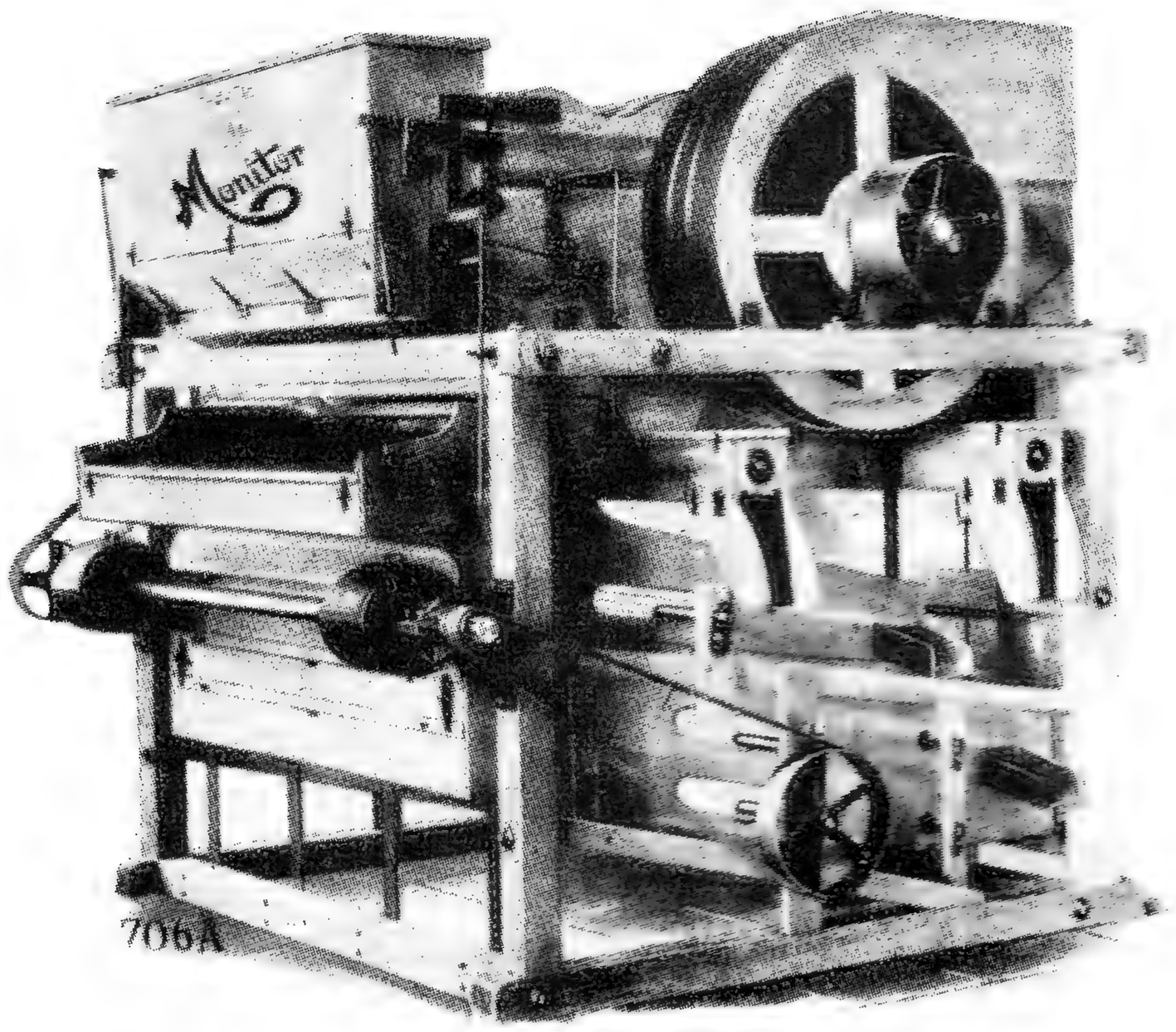
Shoes carrying screens are inter-reinforced design——Automatic sieve cleaners under "Main" and "Seed" screens—these provided with compression oilers for main bearings——Three screen runs, of interchangeable sections, easily removable—withdrawn from front end; screen frames are exceptionally heavy construction, formed up in templets to insure free, true fit—covered with heavy metal——Fan and eccentric shafts are uncommonly heavy, best quality steel, machine sized, and —these operate in heavy-duty, dust-proof, self-oiling bearings, see illustration page 10. ("Chain" or "ring" oilers at regular prices; self-aligning ball bearings for fan shaft at extra price, see page 11) ——Shaking motion imparted to shoes by four heavy-duty eccentrics, adjustable, dust-proof, disc-oiler style, illustrated pages 6 and 7——Feed hopper on the smaller sizes has self-adjusting feed gate and vibrating feeder—adjustable slide gate and revolving force feeder on the larger machines ——A novel spreading device feeds grain evenly across full surface of screens——Fans are low speed, large diameter, one-piece type——Adjustable escapement gate regulates suction on stream discharging from shoe——Exclusive design of deep-area expansion chambers and Internal Compensating Air Regulators, see page 9——Frame and other details of construction, see "Heavy-Service Construction," page 5

"MONITOR" AUTOMATIC BARLEY SEPARATOR—STYLE "A"

DIMENSIONS, CAPACITIES, PRICES, ETC.

SIZE NO.	4	5	6	7	8	9	10	11
Extreme height	8′ 6″	8′ 8″	8′ 8″	8′ 10″	8′ 10″	8′ 10″	9′ 0″	9′ 3″
Extreme length	8′ 10″	8′ 10″	8′ 10″	8′ 10″	8′ 10″	8′ 10″	8′ 10″	8′ 10″
Extreme width	6′ 10″	7′ 5″	8′ 3″	8′ 10″	9′ 4″	9′ 11″	10′ 6″	11′ 0″
Length on floor	7′ 9″	7′ 9″	7′ 9″	7′ 9″	7′ 9″	7′ 9″	7′ 9″	7′ 9″
Width on floor	5′ 5″	5′ 11″	6′ 5″	6′ 11″	7′ 5″	7′ 11″	8′ 5″	8′ 11″
Height to where barley enters	7′ 6″	7′ 9″	8′ 0″	8′ 3″	8′ 6″	8′ 9″	9′ 0″	9′ 3″
Height to center of drive pulley (fan shaft)	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″
Height to center of eccentric shaft	3′ 5″	3′ 5″	3′ 5″	3′ 5″	3′ 5″	3′ 5″	3′ 5″	3′ 5″
Speed — R. P. M. of fan (drive) shaft	550	550	550	550	550	550	575	600
Speed — R. P. M. of eccentric shaft	475	475	475	475	475	475	475	475
Size of drive pulley	10″x5½″	12″x5½″	12″x6½″	14″x6½″	14″x7½″	16″x7½″	16″x8½″	16″x8½″
CAPACITY Bushels, per hour — Fine screens	150	250	350	500	650	800	900	1100
CAPACITY Bushels, per hour — Coarse screens	300	500	750	1000	1250	1500	1750	2000
Approximate shipping weight, pounds	3400	4200	4500	4650	4800	5500	6200	6450

SIZE NO.	4	5	6	7	8	9	10	11
Fan outlet openings, depth	14½″	15½″	15½″	16¼″	16¼″	16¼″	16¼″	16¼″
Fan outlet openings, width	10 ″	10½″	10½″	11 ″	12¼″	12¼″	12¼″	12¼″
Total square inches for both fan outlets	290	326	326	358	398	398	398	398



"MONITOR" BARLEY SEPARATOR—STYLE "A"

Compound (Self-Balancing) Drive—4 Screens—Automatic

A unique combination of four-screen and two-air separations performing cleaning that otherwise must be handled by two separate machines—or by "twice through" work on one. Cleaning with astonishing trueness and unrivaled thoroughness the dirtiest of barley direct from the thresher this *automatic* "Monitor" puts it in A-1 condition for commercial use.

Embodying all the perfected features of our Style "B," page 45, and delivering in a similar manner the same unparalleled character of air separations (2) this Style "A" has one distinctive advantage in screen work—an additional run of screens; instead of three as on the Style "B" four separate screen operations are obtained. This extra run of screens, styled "Auxiliary," is placed in the upper shoe—and is located between the "Scalper" and "Main" screen runs; as with both the "Main" and "Seed" it is automatically cleaned with our perfected under-the-screen brush cleaners—maximum capacity and uniform separations are a certainty. The advantages of the "Auxiliary" are several, it is employed as a preliminary to the "Main" thereby permitting use of finer than regular perforations for that screen, with resultant closer work and better definition, at undiminished capacity—and is dressed with special perforations delivering separations which the other three screens could not handle. For this machine we unqualifiedly *Guarantee*, for the *Screen Work*, unequalled removal of wild rose buds and Canada thistles—and simultaneously, correspondingly perfect separations of broken barley, corn, wild peas, wild buckwheat, mustard and other foul seeds; for the *Air Work*, the removal of *more* wild oats and shrunken barley with less shrinkage—the same unmatchable air efficiency as explained for the Styles "E," "C" and "B," see page 41.

Widely used and highly endorsed by handlers of virgin barley, or exceedingly dirty consignments, this type of "Monitor" squares with every requirement. To fully comprehend this machine's extraordinary merits you should read pages 40 to 45 inclusive, then pages 5, 9 and 13.

CONSTRUCTION—EQUIPMENT

The same surpassing character of approved design and construction as described for the Style "B," page 45—the "A" and "B" are identical with exception of "Auxiliary" Screen and Sieve Cleaners for same as mentioned above for this "A."

"MONITOR" MALT POLISHER AND CLEANER—STYLE "C"

DIMENSIONS, CAPACITIES, PRICES, ETC.

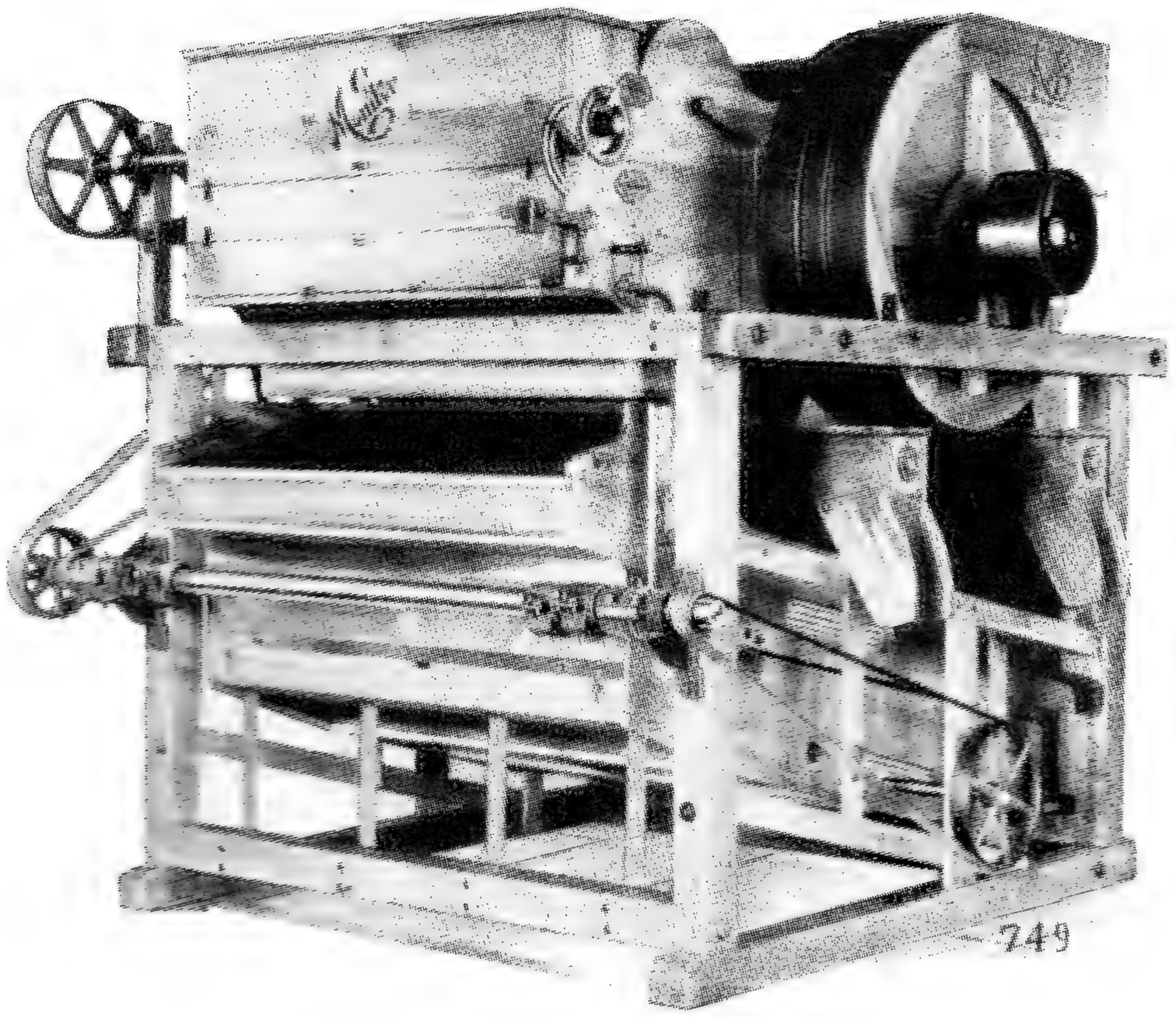
(ALSO STYLES "Cc," "Ccc," "B")

SIZE NO.	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Extreme height	6′ 6″	6′ 8″	7′ 1″	7′ 7″	7′ 10″	8′ 5″	8′ 5″	9′ 2″	9′ 2″	9′ 2″	9′ 2″	9′ 2″	9′ 2″	9′ 2″
Extreme length	6′ 2″	6′ 6″	7′ 0″	7′ 5″	8′ 0″	9′ 0″	9′ 0″	10′ 5″	10′ 5″	10′ 5″	10′ 5″	10′ 5″	10′ 5″	10′ 5″
Extreme width	5′ 5″	5′ 11″	6′ 5″	6′ 10″	7′ 8″	8′ 0″	8′ 9″	9′ 11″	10′ 6″	11′ 0″	11′ 9″	12′ 6″	13′ 2″	13′ 10″
Length on floor	5′ 5″	5′ 9″	6′ 2″	6′ 6″	7′ 1″	7′ 9″	7′ 9″	9′ 1″	9′ 1″	9′ 1″	9′ 1″	9′ 1″	9′ 1″	9′ 1″
Width on floor	3′ 10″	4′ 4″	4′ 11″	5′ 5″	5′ 10″	6′ 4″	6′ 11″	7′ 11″	8′ 5″	8′ 11″	9′ 5″	9′ 11″	10′ 5″	10′ 11″
Height to where malt enters	6′ 5″	6′ 7″	6′ 10″	7′ 3″	7′ 6″	8′ 0″	8′ 0″	8′ 5″	8′ 5″	8′ 5″	8′ 5″	8′ 5″	8′ 5″	8′ 5″
Height to center of drive pulley (fan shaft)	5′ 0″	5′ 1″	5′ 5″	5′ 8″	5′ 11″	6′ 5″	6′ 5″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″
Height to center of eccentric shaft	2′ 3″	2′ 5″	2′ 8″	2′ 8″	2′ 10″	3′ 2″	3′ 2″	2′ 7″	2′ 7″	2′ 7″	2′ 7″	2′ 7″	2′ 7″	2′ 7″
Speed — R. P. M. of fan (drive) shaft	550	500	500	500	450	450	400	400	425	450	475	500	400	400
Speed — R. P. M. of eccentric shaft	600	600	550	550	550	550	550	550	550	550	550	550	550	550
Size of drive pulley	7″x5″	8″x5″	10″x5″	12″x5″	12″x6″	14″x6″	14″x7″	16″x7″	16″x7″	16″x7″	16″x8″	16″x8″	18″x8″	18″x8″
Capacity, bushels per hour	75	150	200	300	450	600	800	1000	1250	1400	1550	1700	1850	2000
Approximate shipping weight, pounds, Style "C"	1500	1800	2100	2600	3200	3800	4200	5100	5500	6100	6600	7100	7700	8300

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Fan outlet openings, depth	11½″	12½″	13½″	14½″	15½″	16¼″	16¼″	19¼″	19¼″	19¼″	19¼″	19¼″		
Fan outlet openings, width	7″	8″	9″	10″	10½″	11″	12¼″	12¼″	12¼″	12¼″	13¼″	14¼″		
Total sq. inches for both fan outlets	162	200	244	290	326	358	398	472	472	472	510	548		

OPERATION—Malt is delivered into hopper and gravitates to polisher (polisher easily disengaged if not desired), thence to vibrating feeder which delivers it in an even stream, over a field of magnets and into first suction leg where sprouts and dust are lifted by the air currents and drawn into settlings chamber; here they are purified by intermediate air separation, dust going to fan discharge, sprouts dropping into conveyor under tip, which delivers them at side of machine. Malt drops through suction leg onto "Scalper" screen which throws off coarse trash, thence to "distributor" that spreads it evenly across "Main" screen, which removes rose buds, Canada thistles and coarse impurities. Malt passes through this screen onto "Seed" screens, which remove wild buckwheat and other foul seeds—from this screen malt flows through adjustable gate into second suction leg where hulls and oats are removed by air currents, which carry them to settlings chamber—to be discharged by conveyor at side of machine.



"MONITOR" MALT POLISHER AND CLEANER

Compound (Self-Balancing) Drive

STYLE "C"

THE choice of maltsters and brewers who are satisfied with nothing but a proven best in Malt Cleaners. With a "Monitor" the user simply and regularly obtains precisely the kind of cleaning desired—with astonishing economy. Their heavy, refined construction is in sharp contrast with the light power and care taken. Accessibility, trueness of adjustment and ease of regulation are the reasons for the quick response and close governed control, which give the operator a satisfying answer to every cleaning demand. Malt is polished by our perfected type of adjustable cylinder which removes the sprouts *without injury*. A field of magnets (removable for cleaning) extracts all pieces of steel or iron. Large, low speed fans and our exclusive design of deep-area, wide expansion chamber (read page 9) perform two unequalled air cleanings (one before and following the screen work)—all sprouts, hulls and oats are removed—thoroughly and *without a sacrifice* of good malt. Three runs of interchangeable sections of screens, easily removable, are carried in the two reciprocating motion, self-balancing shoes—see "Operation" opposite page. In smooth running, thorough efficiency, pleasing dependability, rugged endurance and over-all economy "Monitors" are widely conceded leaders. Read carefully pages 5, 9 and 13.

CONSTRUCTION—EQUIPMENT

Two shoes carrying screens are inter-reinforced construction——Automatic Sieve Cleaners attached to "Seed" screens——Screens are of interchangeable sections, easily removable; the frames of heavy construction, accurately built to templets and covered with durable metal——Fan and eccentric shafts are uncommonly heavy, best quality steel, machined to size and—these operate in heavy-service, dust-proof, self-oiling bearings, illustrated page 10 (also, see Ball Bearings, page 11)——Four heavy-duty, adjustable, dust-proof, self-oiling eccentrics drive the two shoes—illustrated page 8——Feed hopper has adjustable polishing cylinder, self-adjusting feed gate, vibrating feeder and magnetic field——For general construction, see page 5.

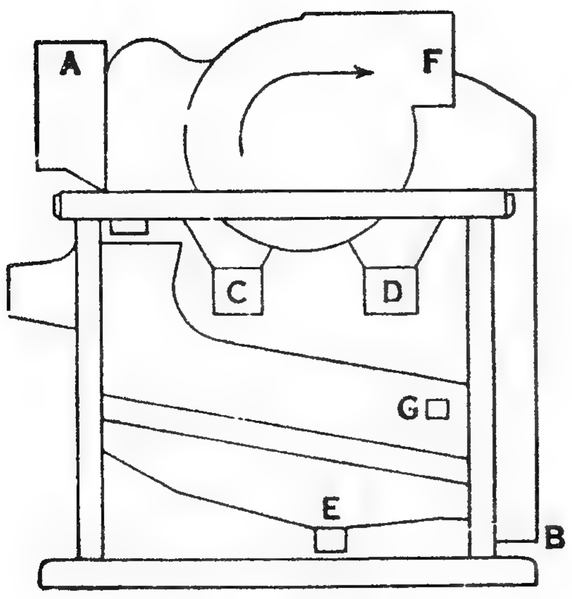


FIG. 1

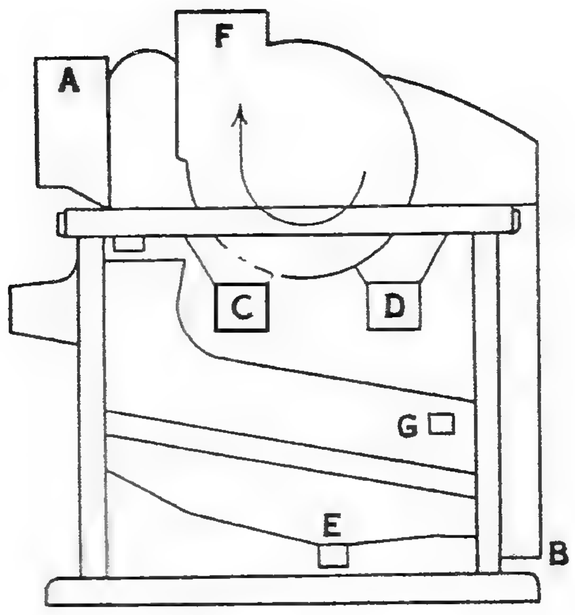


FIG. 2

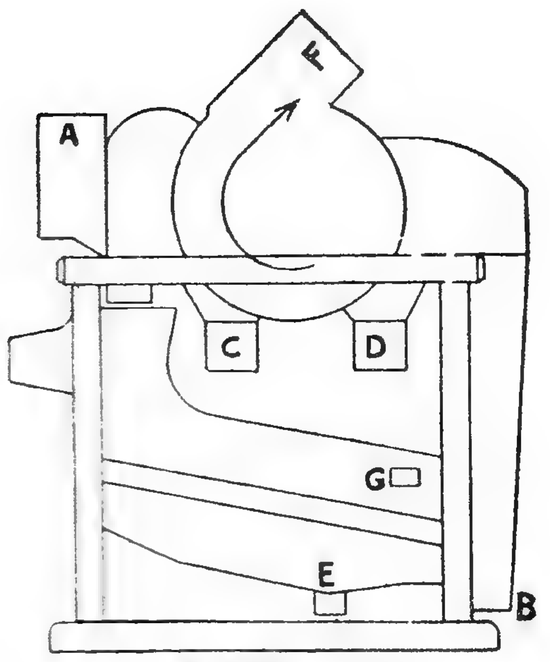


FIG. 7

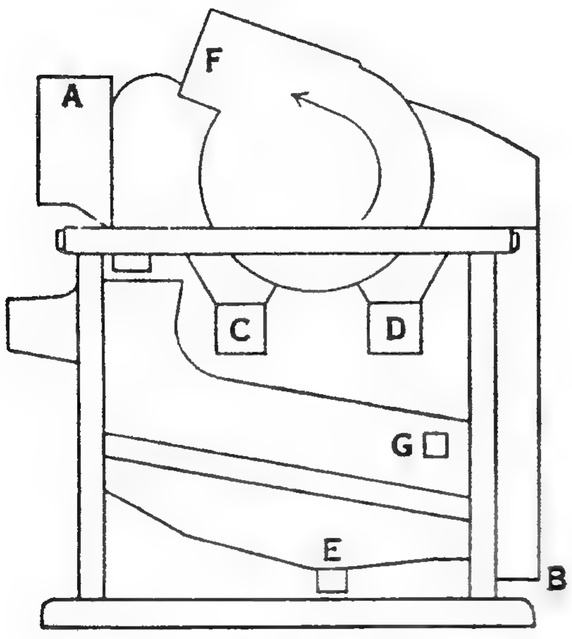


FIG. 3

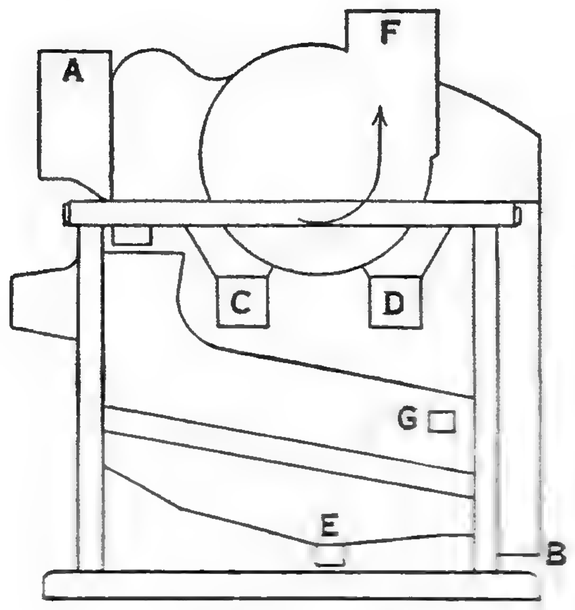


FIG. 4

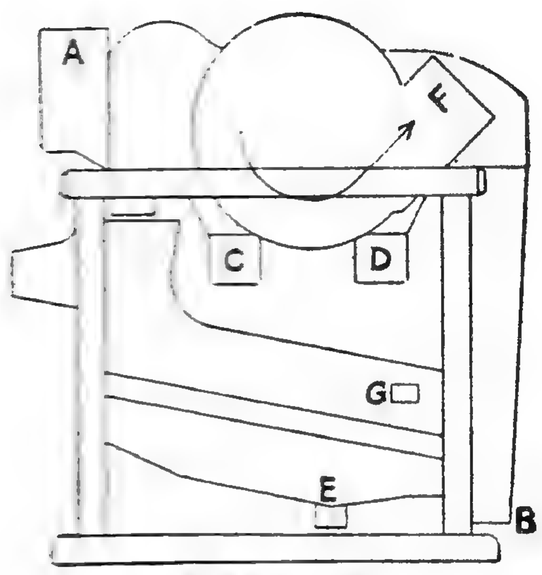


FIG. 8

FIG. 5

FIG. 6

"MONITOR" SEPARATORS

FAN DISCHARGES—SCREENINGS DISCHARGES—PULLEY DRIVES

A—Grain enters—*head end* of machine.
B—Cleaned grain discharge—*tail end* of machine.
C—Screenings discharge—first air separation.
D—Screenings discharge—second air separation.
E—Foul seeds and cockle discharge.
F—Dust discharge from fans.
G—Tailings discharge—main screen.

The above diagrams illustrate several of the different arrangements possible for fan discharge, pulley drive and screenings deliveries—on "MONITOR" Separators shown in this catalog.

Fig. 1. Regular fan discharge as ordinarily supplied.

Fig. 2. Fans revolving same direction as Fig. 1, but discharging straight up.

Fig. 7. Fans revolving same direction as Fig. 1 and Fig. 2—but discharging at an angle.

Fig. 3. Fans reversed—running opposite to regular—discharging out over front of machine.

Fig. 4. Fans revolving same direction as Fig. 3, but discharging straight up.

Fig. 8. Fans revolving same direction as Fig. 3 and Fig. 4, but discharging at angle shown.

Fig. 5. *Right-hand machine*—driving pulley and first and second screenings are delivered from conveyors on right-hand side as you face *head end* of machine.

Fig. 6. *Left-hand machine*—driving pulley and first and second screenings are delivered from conveyors on left-hand side as you face *head end* of machine.

NOTE—Driving pulley is on fan shaft always—connecting pulleys to drive shakers are on opposite side.

"Monitor-Northwestern"

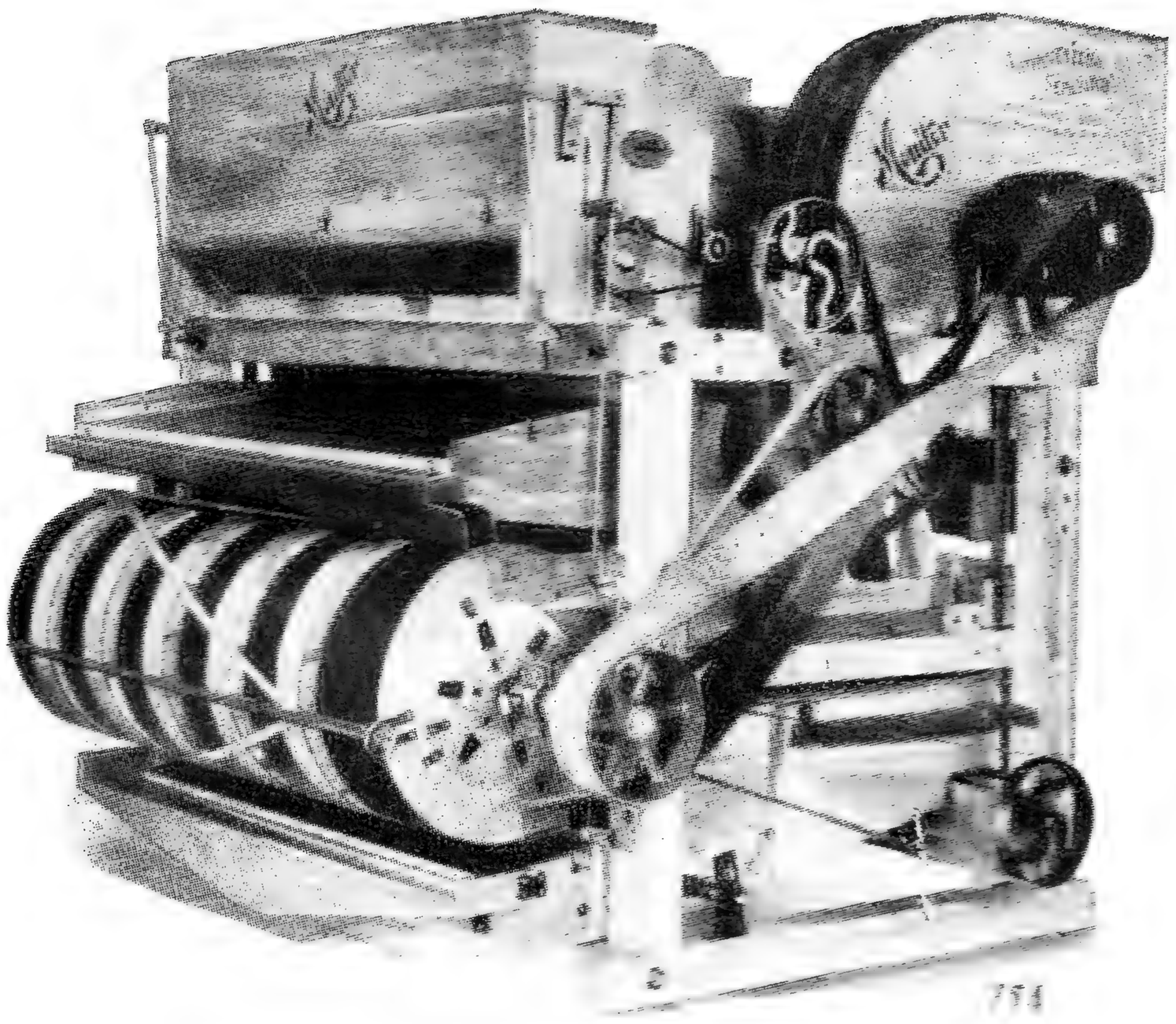
Oats Separator and General Purpose Cleaner

REGULARLY, in a pleasingly simple, inexpensive and unwasteful manner it delivers separations no other machine has ever equalled—its supremacy is too broadly established to be questioned. Its meteoric rise to permanent leadership and increasing preference by prominent, critical users is due to—our use of exclusive basic principles and perfected construction convincingly demonstrated as necessary in the highest degree for service such as a machine of this class is intended; heavier construction, better materials, finer workmanship, fit and finish than similar machines—a faultless standard of mechanical excellence giving trueness of adjustment, accuracy of control, smoothness of operation, reliability and endurance unequalled. Its light power, infrequent attention and low upkeep cost are quite as gratifying as the unmatchable work it consistently and economically performs.

As in use separating oats from wheat: a large-capacity hopper, of same width as suction legs and screens, contains adjustable slide gate and a revolving force feeder which automatically distributes grain evenly full width of first suction leg. Here, under surprisingly perfect control, the air currents lift light oats, shrunken grain, dust and light impurities carrying them into settlings chamber where they are purified by intermediate air separation, the dust going to fan discharge, the cleaned screenings dropping into conveyor, with delivery at side of machine. From suction leg the grain falls upon distributor plate and flows out onto the uncommonly large-area "Scalper" which removes straw joints, bag ties and coarse trash—through the perforations the grain drops onto distributor plate traveling same a sufficient period for the oats to work to the top before the stream passes onto the uppermost of the "six-high," or "gang" screens where a unique combination of vibration, screens and air blast performs unparalleled separations. Accurately controlled, phenomenally uniform air blast is forced upwardly and forward through the screens lifting and carrying oats over with a quickness and sureness that prevents their passing through the "gang" sieves with the wheat. *IMPORTANT*—the matchless separations the "Monitor-Northwestern" "gang" unfailingly delivers is due to our *exclusive* type of multiple blast fans and their novel unit adjustment (see cut): with instant, true response the blast is adjusted to precisely the force required—delivered uniformly throughout *entire area* of the "gang" screens; unlike all other machines there are no "corners," "dead spots" or "pockets," the *full surface* of screens is continuously employed on the "Monitor-Northwestern"; the stream is safely fed "way down" on the sieves—reasons for the unequalled screen capacity and the higher percentage of oats removal this machine delivers.

From the "gang" wheat drops onto a distributor plate thence passes over a large-area "Seed" screen automatically cleaned with a perfected type of adjustable traveling brush cleaner—this screen removes foul seeds, sand and fine dirt.

Continued—page 52



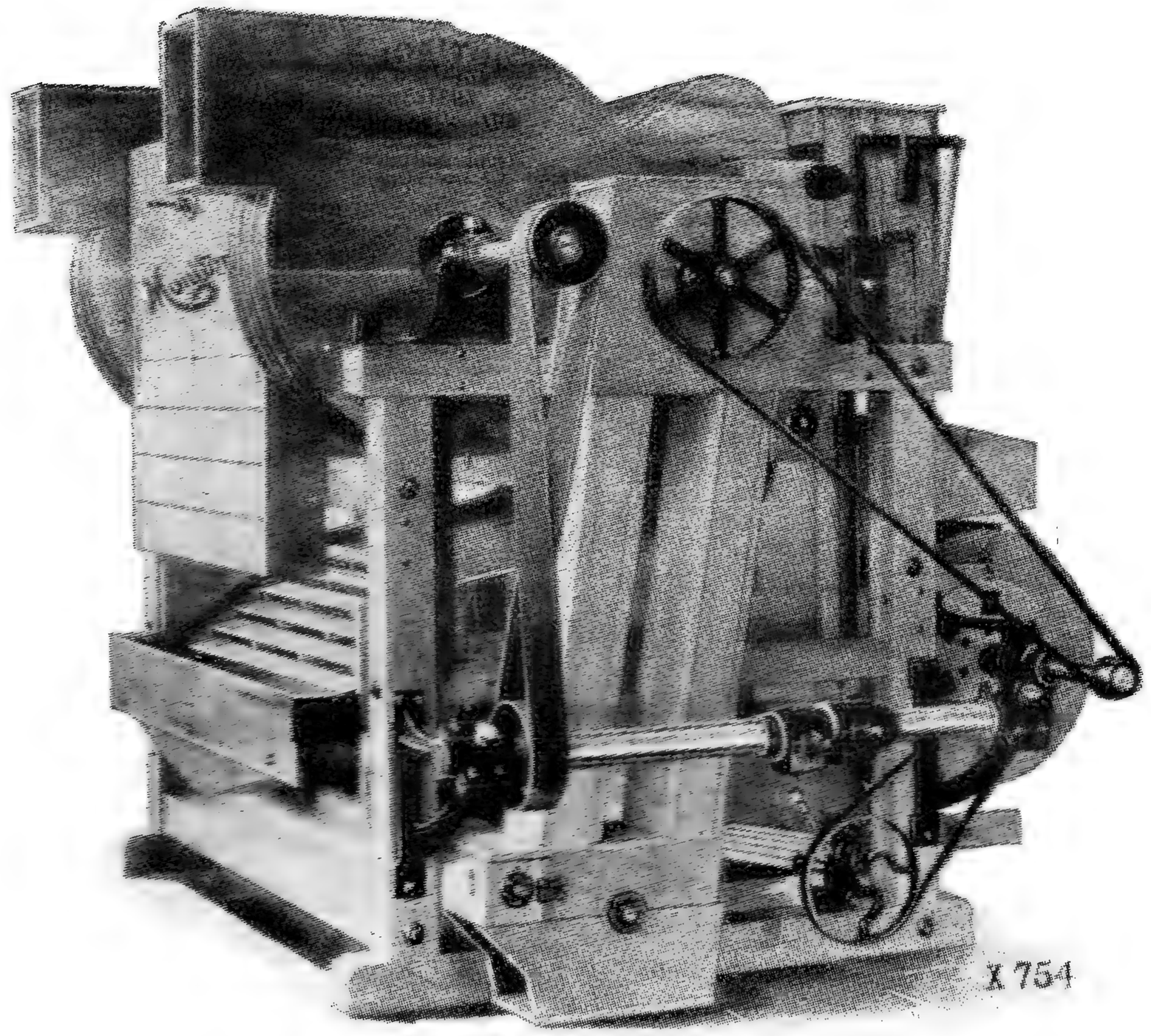
"MONITOR-NORTHWESTERN"
OATS SEPARATOR AND GENERAL PURPOSE CLEANER

Continued from page 51

By means of adjustable valve the operator can cut off, and return to the machine, any desired uncleaned portion from extreme tail end of "gang" back towards head end—a small elevator and distributor being provided for this purpose. The distribution is made evenly across the "gang," falling on top of grain flowing down the screens. Observe cut—notice the saving in space and convenient location of "return" elevator.

Located at discharge end of "gang" sieves is a wide air suction leg that draws off the dust blown through the grain by the multiple blast fans and carries it to the fan discharge.

Main frame is of heavy, selected, thoroughly air dried hardwood—machine mortised and tenoned, joined with large bolts having heavy washer under head. Two inter-reinforced construction shoes carry the screens; these are driven by two dust-proof, self-oiling, heavy-duty design eccentrics, directly opposed and operated by one unusually large eccentric shaft—a superlatively smooth, self-balancing, "side-shake" motion. All shafts are uncommonly heavy, of high-grade steel, accurately machine finished. Bearings are unusually wide, of heavy-service construction, heavily lined with high-grade Babbitt metal—fitted with compression lubricators. Construction throughout is the heaviest known for machines of this class. Two large-diameter, one-piece, low-speed fans are employed for suction cleaning—our *exclusive* multiple fans for blast cleaning. Easy access to all parts, accurate, positive adjustment, unmatchable uniformity for screen and air separations are features that place this machine in a class by itself. Screens for regular wheat, barley, or flaxseed cleaning can be furnished as specified.



"MONITOR-NORTHWESTERN"

OATS SEPARATOR AND GENERAL PURPOSE CLEANER

DIMENSIONS, CAPACITIES, PRICES, ETC.

SIZE NO.		336	548	760	972
Extreme height overall		7′ 0″	7′ 1″	7′ 3″	7′ 8″
Extreme width including pulleys		7′ 0″	8′ 0″	9′ 1″	10′ 2″
Extreme length overall		7′ 5″	7′ 7″	7′ 9″	7′ 11″
Length of frame on floor		5′ 3″	5′ 3″	5′ 3″	5′ 3″
Width of frame on floor		4′ 3″	5′ 4″	6′ 4″	7′ 4″
Height to top of feed hopper where grain enters		6′ 10″	6′ 10″	7′ 2″	7′ 8″
Height to center of pulley on suction fan shaft		5′ 6″	5′ 6″	5′ 6″	5′ 8″
Height to center of pulley on blast fan shaft		2′ 3″	2′ 3″	2′ 3″	2′ 3″
Horse power required		3	4	5	6
Speed	R. P. M. of suction fan shaft	500	500	500	500
	R. P. M. of blast fan shaft	420	420	420	420
	R. P. M. of eccentric shaft	390	390	390	390
Size of driving pulley		12″x4″	12″x5″	12″x6″	12″x7″
CAPACITY Bushels, hourly	Separating oats from wheat	200 to 325	300 to 450	400 to 600	500 to 800
	Cleaning barley and oats	300 to 500	400 to 650	500 to 800	600 to 1000
	Cleaning flaxseed	50 to 75	75 to 100	100 to 150	150 to 200
Approximate shipping weight, pounds		2900	3300	3800	4300

SIZE OF SUCTION FAN OUTLETS—INSIDE MEASURE

SIZE NO.	336	548	760	972
Fan outlet openings, depth	11½″	12½″	13½″	15½″
Fan outlet openings, width	8″	8″	9″	9″
Total square inches for both fan outlets	184	200	243	279

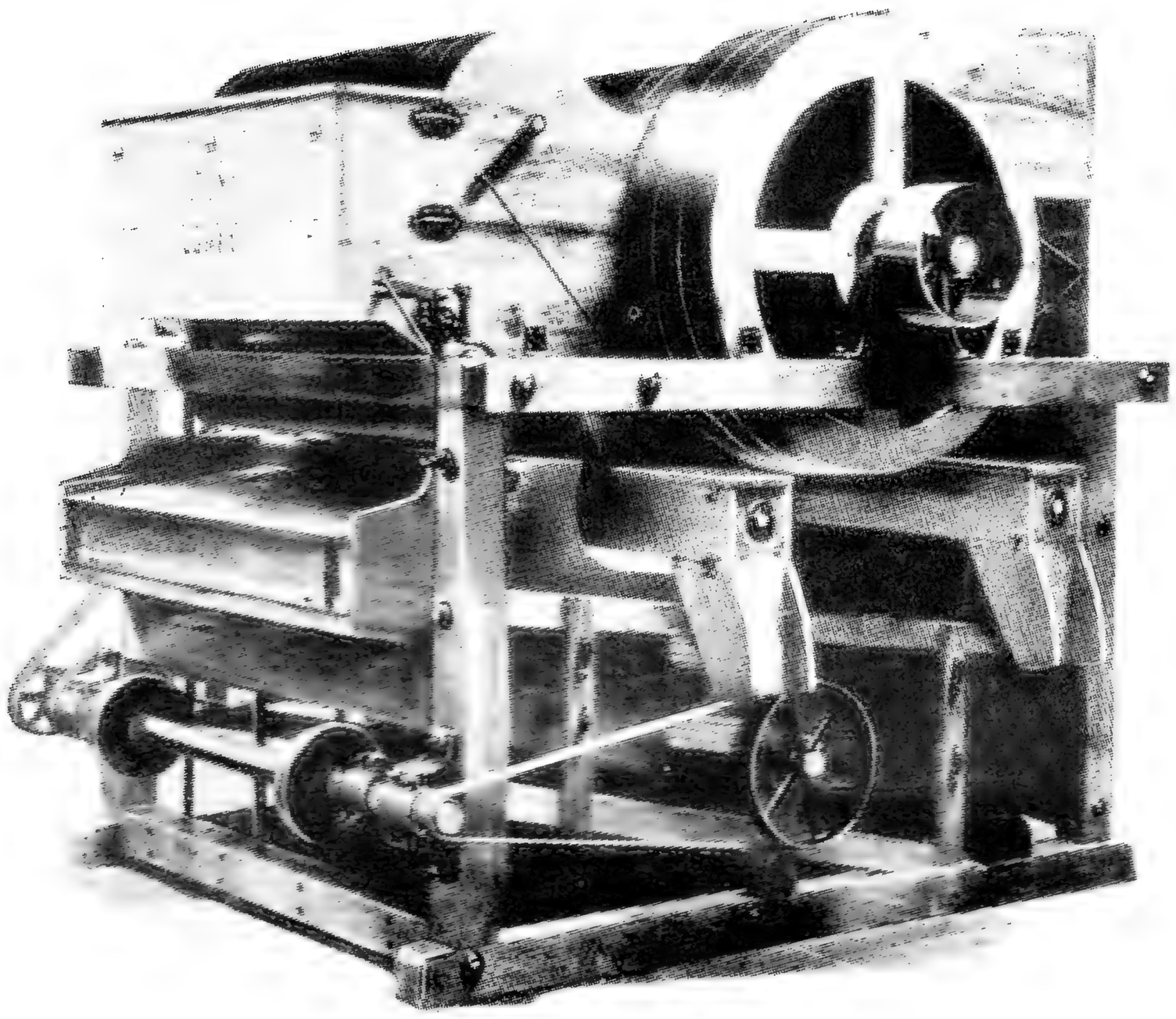
"MONITOR" COMBINATION FLAXSEED AND GRAIN CLEANER

DIMENSIONS, CAPACITIES, PRICES, ETC.

SIZE NO.	2	3	4	5	6	7	8	9	11
Extreme height	6′ 0″	6′ 6″	6′ 7″	7′ 0″	7′ 3″	7′ 8″	7′ 8″	8′ 8″	8′ 8″
Extreme length	6′ 0″	6′ 4″	6′ 11″	7′ 3″	8′ 0″	8′ 8″	8′ 8″	10′ 3″	10′ 3″
Extreme width	4′ 6″	5′ 1″	5′ 9″	6′ 8″	6′ 10″	7′ 1″	7′ 11″	9′ 1″	10′ 2″
Length on floor	5′ 3″	5′ 9″	6′ 2″	6′ 8″	7′ 4″	7′ 9″	7′ 9″	9′ 0″	9′ 0″
Width on floor	3′ 2″	3′ 8″	4′ 2″	5′ 0″	5′ 1″	5′ 5″	6′ 0″	7′ 1″	8′ 1″
Height to where grain enters	5′ 4″	5′ 9″	6′ 3″	6′ 8″	7′ 0″	7′ 0″	7′ 0″	7′ 8″	7′ 8″
Height to center of drive pulley (fan shaft)	4′ 6″	4′ 11″	4′ 10″	5′ 1″	5′ 4″	5′ 7″	5′ 7″	6′ 3″	6′ 3″
Height to center of eccentric shaft	1′ 2″	1′ 5″	1′ 4″	1′ 4″	1′ 5″	1′ 5″	1′ 5″	1′ 5″	1′ 5″
Speed — R. P. M. of fan (drive) shaft	600	550	500	450	450	450	450	450	450
Speed — R. P. M. of eccentric shaft	500	500	500	500	500	500	500	500	500
Size of drive pulley	7″x5″	8″x5″	9″x5″	10″x5″	11″x5″	12″x5″	14″x6″	16″x7″	16″x8″
Horse power required to operate	1½	2	2½	3	3½	4	5	7	9
CAPACITY Bushels, per hour — Wheat	100 to 200	150 to 300	225 to 450	325 to 650	450 to 900	600 to 1200	800 to 1600	1200 to 2400	1500 to 3000
CAPACITY Bushels, per hour — Barley	75 to 100	100 to 150	150 to 225	225 to 325	300 to 450	400 to 600	500 to 800	700 to 1200	900 to 1500
CAPACITY Bushels, per hour — Flaxseed	40 to 60	55 to 80	75 to 100	100 to 150	125 to 200	150 to 250	175 to 300	250 to 400	300 to 500
Approximate shipping weight, pounds	1150	1400	1700	2100	2600	3300	3800	4400	5500

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	2	3	4	5	6	7	8	9	11
Fan outlet openings, depth	11½″	12½″	13½″	14½″	15½″	16¼″	16¼″	19¼″	19¼″
Fan outlet openings, width	7″	8″	9″	10″	10½″	11″	12¼″	12¼″	12¼″
Total square inches for both fan outlets	161	200	244	290	326	358	398	472	472



"MONITOR"

COMBINATION FLAXSEED AND GRAIN CLEANER

EXTRAORDINARY receiving cleaning for flaxseed—less than 2% impurities remaining after this "Monitor" has finished its work—equally surprising results on wheat, or barley. This unequalled efficiency coupled with the non-wasteful character of separations obtained makes it the most desirable Cleaner in this class, decidedly so.

Five cleaning operations: Two sensitively controlled, ultra-economical air cleanings, one before and after the screens—matchless uniformity and thoroughness. Three runs of large-area screens are carried in the long-thrust-motion shoe—these remove, with satisfying regularity, all coarse and fine impurities which the air separations do not handle. With exception of the "Scalper," the screens are automatically cleaned with our perfected under-the-screen traveling brushes—uniform trueness and full capacity unfailingly maintained. Adaptable to a wide range of work, operating with uncommonly light power and surprisingly little attention, this *exclusive* type of "Combination" Separator has demonstrated its incomparable efficiency to hundreds of pleased owners. A surpassingly fine specimen of expert designing, masterly workmanship and painstaking detail of construction—its unparalleled cleaning efficiency, economy and endurance broadly proven. Read pages 5, 9 and 13.

CONSTRUCTION—EQUIPMENT

Shoe carrying screens is "one-piece," inter-reinforced construction, counter-balanced in motion by counterweight flywheels attached to eccentric shaft——Screens are of interchangeable sections, easily removed, front end pull; the frames are exceptionally heavy construction, formed up in templets to insure true size—covered with durable metal (for flaxseed we use special drawn steel wire woven for our special requirements). Automatic traveling brush sieve cleaners, adjustable, for the "Main" and "Seed" screens——Fan and eccentric shafts are uncommonly heavy, of best quality steel, machine sized and—these operate in heavy-service, dust-proof, self-oiling bearings, illustrated page 10. (See ball bearings, page 11)——Shaking motion imparted to the shoe by two long-thrust, heavy-service, dust-proof, self-oiling eccentrics, similar to illustration page 8——Feed hopper has adjustable gate valve and vibrating feeder——A novel spreading device feeds the stock evenly across full width of screens——Fans are low speed, large diameter, one-piece design——Adjustable escapement gate regulates suction on stream discharging from shoe——Exclusive design of deep-area expansion chamber and Internal Compensating Air Regulators, see page 9——Frame and general construction, see page 5.

"MONITOR" DOUBLE FLAXSEED SEPARATOR—STYLE "A"

DIMENSIONS, CAPACITIES, PRICES, ETC.

SIZE NO.		4	5	6	8
Extreme height		8′ 4″	8′ 4″	8′ 4″	9′ 7″
Extreme length		8′ 10″	8′ 10″	8′ 10″	11′ 9″
Extreme width		6′ 4″	6′ 10″	7′ 4″	9′ 4″
Length on floor		6′ 8″	6′ 8″	6′ 8″	8′ 8″
Width on floor		4′ 7″	5′ 1″	5′ 7″	6′ 6″
Height to where flaxseed enters		8′ 0″	8′ 0″	8′ 0″	9′ 5″
Height to center of drive pulley (fan shaft)		6′ 10″	6′ 10″	6′ 10″	7′ 9″
Height to center of eccentric shaft		3′ 2″	3′ 2″	3′ 2″	3′ 8″
Speed	R. P. M. of fan (drive) shaft	450	500	550	450
	R. P. M. of eccentric shaft	350	350	350	250
Size of drive pulley		10″x6″	11″x6″	12″x6″	20″x7″
Horse power required to operate		3	3½	4	8
CAPACITY Bushels, per hour	Flaxseed	250 to 400	300 to 500	350 to 600	600 to 1000
	When used for cleaning wheat, barley and other grains, capacities are increased two to three times those listed for flaxseed.				
Approximate shipping weight, pounds		3000	3500	4000	6000

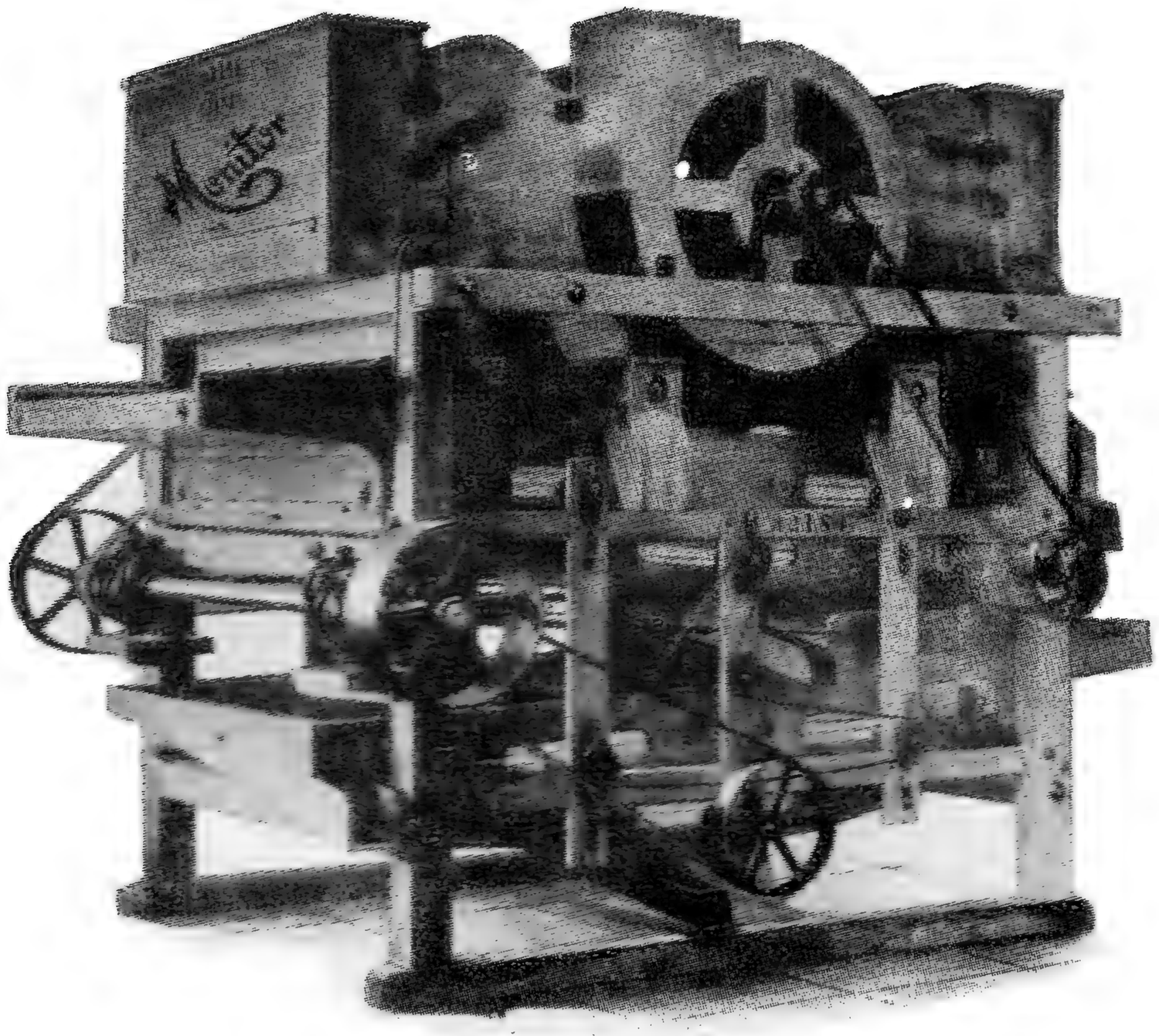
SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	4	5	6	8
Fan outlet openings, depth	12½″	12½″	12½″	14½″
Fan outlet openings, width	8½″	8½″	8½″	10½″
Total square inches for both fan outlets	213	213	213	306

OPERATION

If operated at full capacity flaxseed is delivered into feed hopper at each end of machine. The top shoe receives the stream that passes through the hopper located directly over eccentric shaft. The lower shoe receives stream fed into hopper at opposite end—a carry-by spout used for this delivery. The operation on each stream is as follows: Amount of feed is regulated by slide gates, insuring a uniform stream delivery into each suction leg. The air currents remove hay and any other light foreign matter and carry it into settlings chamber where the light dust is removed by an intermediate air separation, which carries it to the fans for discharge—the heavier impurities drop into conveyor underneath, which give delivery at side of machine. From suction leg flaxseed drops upon the "Scalper" which throws off straw, weeds, unthreshed flaxseed and coarse trash, then drops through to the "Main" cleaning screen, which removes wheat, barley, oats, wild buckwheat, mustard and other impurities. The flaxseed passes through the openings of this screen onto the "Seed" screens where grass seed, small wild mustard and other foul seeds are removed. On the top shoe the flaxseed travels over and tails from the "Seed" screens into a conveyor, which delivers it at either side of machine as desired—by using either "straight" or "twist" drive belt. Delivery of the cleaned flaxseed from the lower shoe is from spout which may be pitched to deliver at either side as desired.

When desired to clean flaxseed "twice through" for seed purposes the belt driving conveyor that takes the cleaned flaxseed from the top shoe is thrown off—the false bottom in this conveyor is removed and the flaxseed drops through the open conveyor box onto scalper at head end of lower shoe. the operation is repeated the same as on the top shoe.



"MONITOR" FLAXSEED SEPARATOR

DOUBLE—STYLE "A"—COMPOUND DRIVE

THEIR exclusive use in practically every modern elevator is due to internationally demonstrated supremacy—efficiency unparalleled, flaxseed cleaned to 98% pure with *less shrinkage* than by any other Cleaner. Simply, thoroughly and economically mastering every flaxseed cleaning requirement, this same machine, with a change of screens, easily effected, performs grain cleaning of a surpassing character. This is virtually two machines in one frame, both used in unison, or each independently, as conditions demand. If highest purity cleaning is desired stream is delivered to one hopper—flaxseed (or grain) is treated by one thorough air (see page 9) and six uniformly true screen separations. For standard work flaxseed (or grain) is delivered into hopper at each end—each stream is treated by one air and three screen cleanings. If required, grain and flaxseed can be handled simultaneously, feeding from hopper at each end and receiving one air and three screen cleanings; cut-offs supplied, easily and quickly effect these changes. Economizing space and simplifying cleaning to the utmost these light running, quickly responsive, true control "Monitors" have established unequalled standards for efficiency and economy. Construction, fit and finish throughout are "Monitor" standard—the World's best.

CONSTRUCTION—EQUIPMENT

Two inter-reinforced shoes—each carrying three runs of interchangeable screens—screen frames of heavy construction, covered with durable metal and, for flaxseed, have our exclusive weave of heavy drawn steel wire——Automatic, adjustable sieve cleaners for all screens, except the "Scalpers" ——Fan and eccentric shafts are uncommonly large, of best quality steel, machine finished—these operate in heavy-service, dust-proof, self-oiling bearings—see page 10. (Ball bearings, if desired, see page 11)——Two heavy-duty, adjustable, long-thrust eccentrics, opposed in pairs, drive each shoe—a perfect "compound" drive——Both feed hoppers have adjustable slide gate feeders—— Fans are large diameter, low speed, one-piece type——Exclusive design of deep-area expansion chamber and Internal Compensating Air Regulators, see page 9——Frame and general construction, see page 5.

OPERATION described page 56.

"MONITOR" DOUBLE FLAXSEED SEPARATOR

STYLE "B"

DIMENSIONS, CAPACITIES, PRICES, ETC.

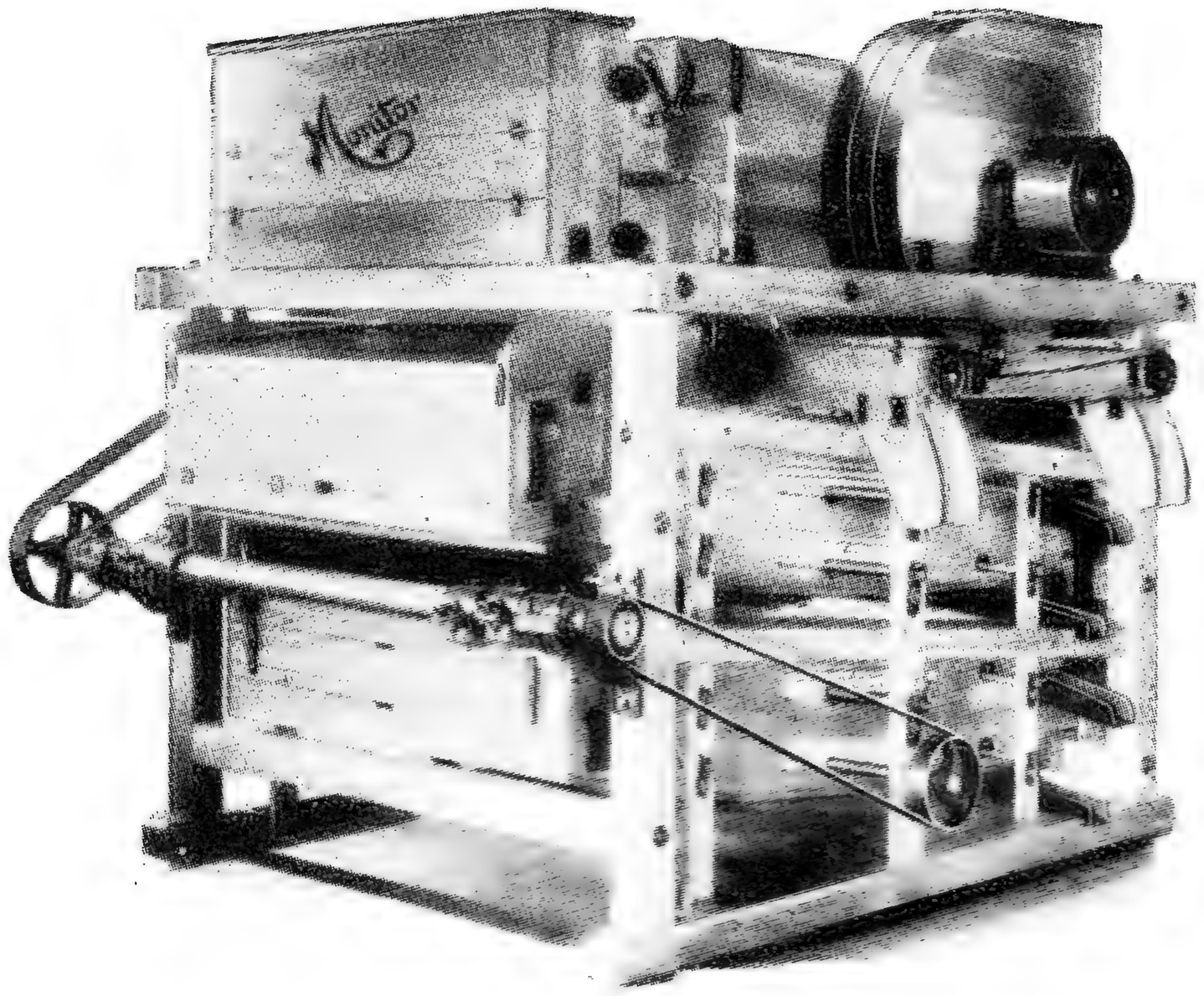
SIZE NO.	2	3	4	5	6
Extreme height	7′ 0″	7′ 0″	7′ 4″	7′ 4″	7′ 4″
Extreme length	6′ 5″	6′ 5″	8′ 6″	8′ 6″	8′ 6″
Extreme width	5′ 4″	6′ 0″	6′ 3″	6′ 9″	7′ 3″
Length on floor	5′ 10″	5′ 10″	7′ 7″	7′ 7″	7′ 7″
Width on floor	4′ 0″	4′ 6″	4′ 6″	5′ 0″	5′ 6″
Height to where flaxseed enters	6′ 9″	6′ 9″	6′ 11″	6′ 11″	6′ 11″
Height to center of drive pulley (fan shaft)	5′ 6″	5′ 6″	5′ 9″	5′ 9″	5′ 9″
Height to center of eccentric shaft	2′ 5″	2′ 5″	2′ 7″	2′ 7″	2′ 7″
Speed — R. P. M. of fan (drive) shaft	550	600	500	550	600
Speed — R. P. M. of eccentric shaft	350	350	350	350	350
Size of drive pulley	10″x5″	11″x5″	10″x6″	11″x6″	12″x6″
Horse power required to operate	2	2½	3	3½	4
CAPACITY Bushels, per hour — Flaxseed	125 to 200	150 to 250	250 to 400	300 to 500	350 to 600
CAPACITY Bushels, per hour — When used for cleaning wheat, barley and other grains, capacities are increased two to three times those listed for flaxseed					
Approximate shipping weight, pounds	2000	2300	2700	3000	3300

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	2	3	4	5	6
Fan outlet openings, depth	11½″	11½″	12½″	12½″	12½″
Fan outlet openings, width	7″	8″	8″	8″	8″
Total square inches for both fan outlets	161	184	200	200	200

OPERATION

Flaxseed discharges from feed hopper through adjustable slide gate in an even stream, discharging into suction leg where the first air separation is performed. The upward air currents lift hay and other light foreign matter, drawing them into settlings chamber where intermediate air separation takes place. The dust is carried to and discharged from the fans. The hay and heavier impurities drop into conveyor, with delivery at side of machine. Flaxseed drops through suction leg onto a "Scalper," which throws off straw, unthreshed flaxseed and coarse impurities. Following this "Scalper" screen separation the stream is divided into two equal parts, with delivery to the top and lower shoes. The screen operations thereafter are the same in both shoes as follows: Flaxseed is spread evenly across head end of the "Main" cleaning screen where wheat, barley, oats, wild buckwheat, wild mustard and other impurities larger than flaxseed are removed—flaxseed passes through openings in the "Main" and drops upon the "Seed" run of screens, which remove grass seed, small wild mustard and other foul seeds. From the shoes the two streams of flaxseed are delivered into suction leg where second air separation is performed, the air currents removing the heavier of the light impurities, carrying them into settlings chamber, from which they are delivered by conveyor at side of machine.



"MONITOR" FLAXSEED SEPARATOR

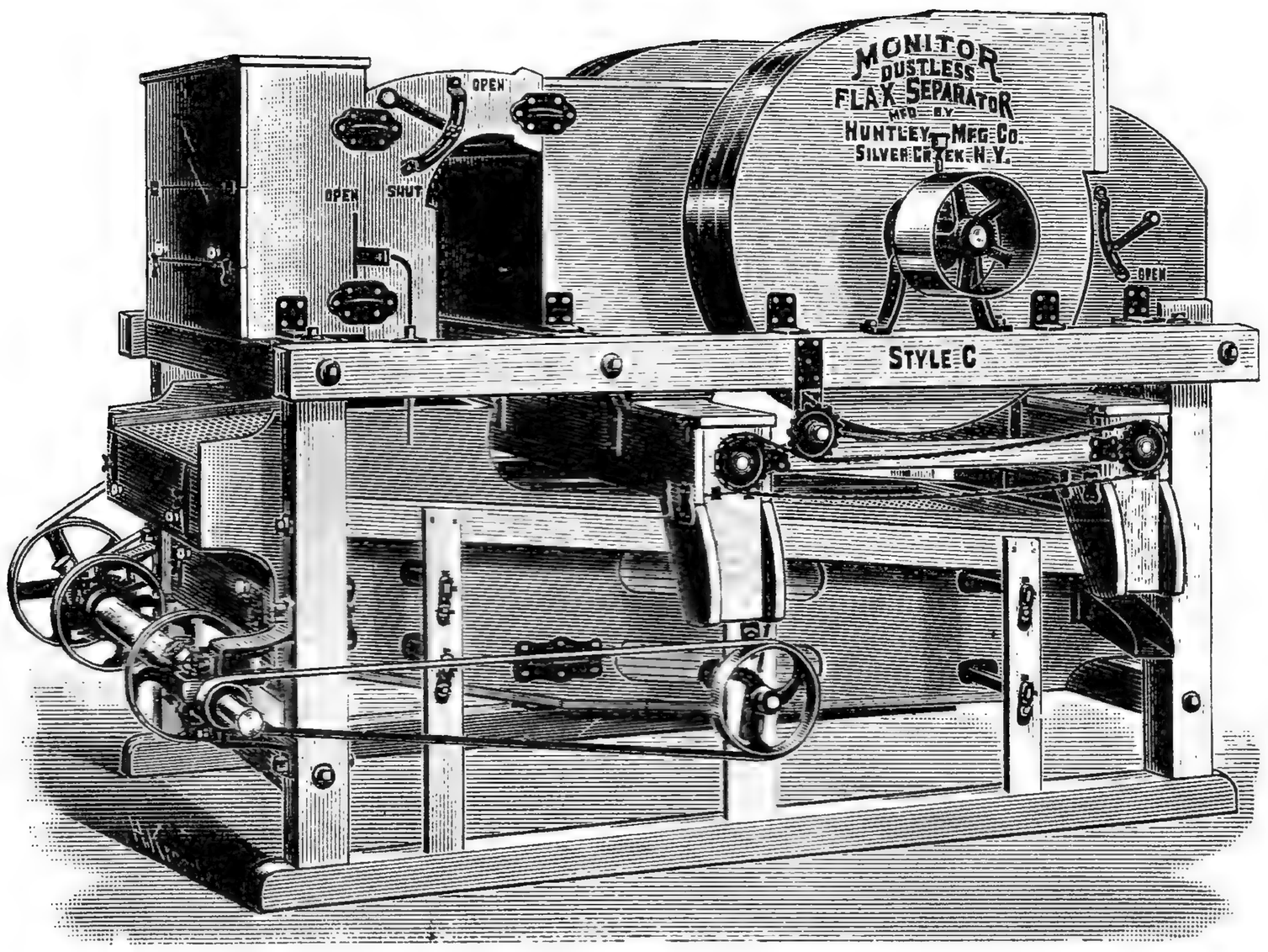
DOUBLE—STYLE "B"—COMPOUND DRIVE

OF different design than our Style "A," page 57, and varying in operation this model offers similar advantages—it is modified, however, to meet different cleaning requirements. Whereas the "A" has but one air separation, this machine has two, and when used for grain cleaning is preferable, as the second air cleaning simply and regularly performs desirable work "one-air" or any number of screen separations cannot accomplish. As with our "A" type, so will this machine clean flaxseed to 98% pure, or better, without waste —delivering a greater percentage of high-grade flaxseed with a closer and much more economical removal of impurities than anything sold for similar purposes. Flaxseed (or grain) passes through hopper, first suction leg, and "Scalper" screen in a single stream—is then divided equally with delivery to each independent set of large-area screens in the two separate, self-balancing driven shoes —thereafter to second air cleaning. Two air and three screen cleanings—unmatchable thoroughness and uniformity rendered with surprisingly small power consumption, and ease of control. A smooth running, satisfyingly endurable Cleaner that is profiting and pleasing many discriminating users. See pages 5, 9 and 13.

CONSTRUCTION—EQUIPMENT

Shoes carrying screens are inter-reinforced construction—two runs of interchangeable sections in each, (also, a "Scalper" and "Divider" in the upper)——Screen frames of heavy construction, covered with durable metal and—for flaxseed have our exclusive weave of heavy, drawn steel wire——Automatic, adjustable, sieve cleaners for all screens, except the "Scalper"——Fan and eccentric shafts are uncommonly large, of best quality steel, machine finished—these operate in heavy-service, dust-proof, self-oiling bearings—see page 10. (Ball bearings, if desired, see page 11)——Two heavy-duty, adjustable, long-thrust eccentrics, directly opposed, in pairs, drive each shoe——Feed hopper has adjustable slide gate feeder——Fans are large diameter, low speed, one-piece type——Exclusive design of deep-area expansion chamber and Internal Compensating Air Regulators, see page 9——Frame and general construction—see page 5.

OPERATION—described page 58.



"MONITOR" FLAXSEED SEPARATOR

SINGLE—STYLE "C"

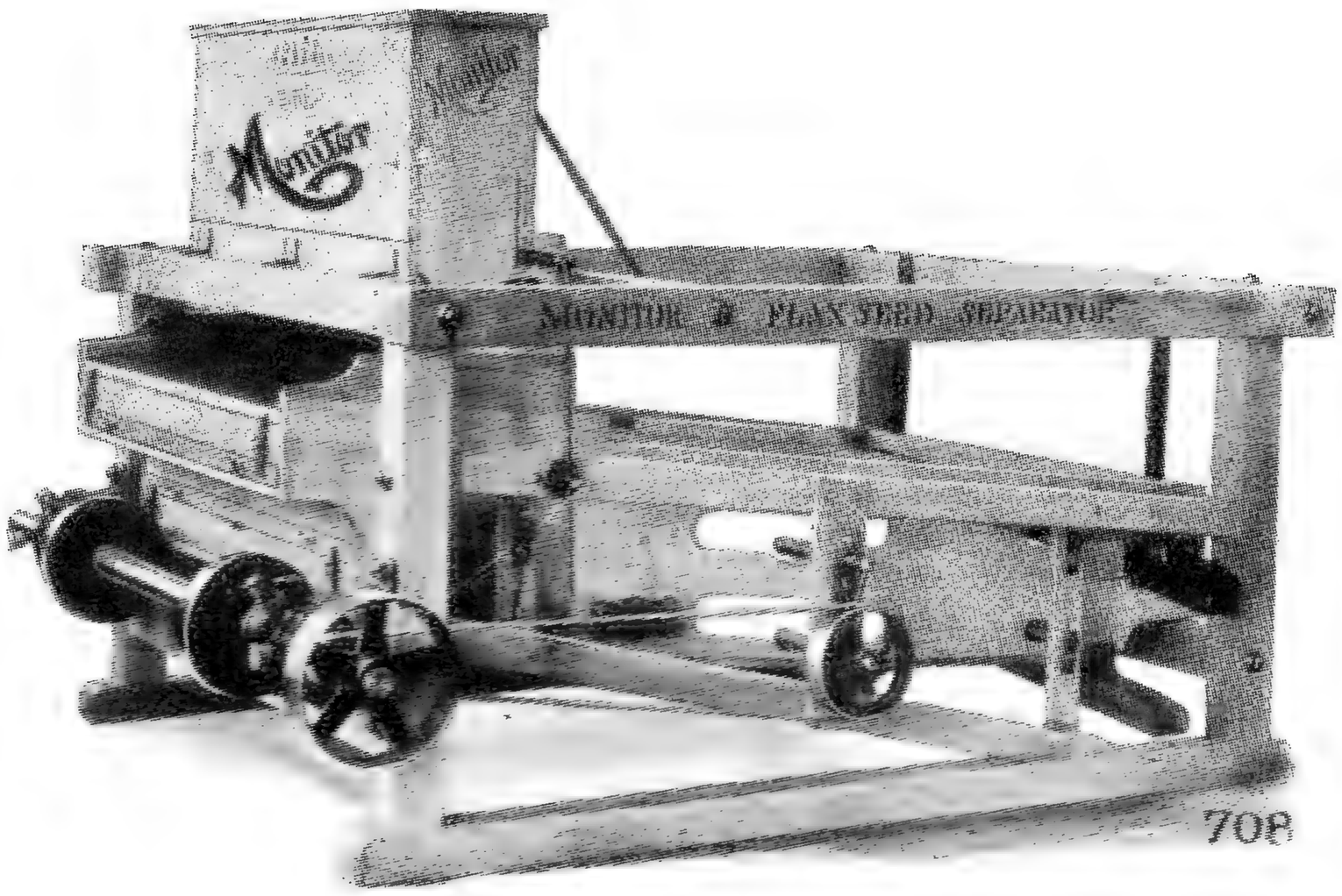
At one-half the capacity—the same unequalled air and screen cleaning efficiency, the same unparalleled economy as with the Style "B," page 59; only in construction is there a difference—the above machine has one shoe only—which cuts capacity one-half. Where space will not permit the use of our Style "B" this lesser height Style "C" can safely be considered as a worthy substitute. Two faultless air separations, before and after the screens—three large-area screen cleanings of unvarying trueness are performed the same as with the "B" Style. Smooth running qualities are obtained by placing counterweight flywheels on the eccentric shaft. A consistently perfect cleaner, requiring little power, or care—a "Monitor" in quality throughout. For flaxseed, or grain, same as the "B," page 59.

DIMENSIONS, CAPACITIES, PRICES, ETC.

SIZE NO.	2	3	4	5	6
Extreme height	5′ 5″	5′ 5″	5′ 11″	5′ 11″	5′ 11″
Extreme length	6′ 5″	6′ 5″	8′ 6″	8′ 6″	8′ 6″
Extreme width	5′ 3″	5′ 11″	6′ 2″	6′ 8″	7′ 2″
Length on floor	5′ 10″	5′ 10″	7′ 7″	7′ 7″	7′ 7″
Width on floor	4′ 0″	4′ 6″	4′ 6″	5′ 0″	5′ 6″
Height to where flaxseed enters	5′ 2″	5′ 2″	5′ 6″	5′ 6″	5′ 6″
Height to center of drive pulley (fan shaft)	3′ 11″	3′ 11″	4′ 4″	4′ 4″	4′ 4″
Height to center of eccentric shaft	0′ 10″	0′ 10″	1′ 2″	1′ 2″	1′ 2″
Speed — R. P. M. of fan (drive) shaft	550	600	500	550	600
Speed — R. P. M. of eccentric shaft	350	350	350	350	350
Size of drive pulley	10″x4″	11″x4″	10″x5″	11″x5″	12″x5″
Horse power required to operate	1	1½	2	2½	3
CAPACITY Bushels, per hour — Flaxseed	60 to 100	75 to 125	125 to 200	150 to 250	175 to 300
CAPACITY Bushels, per hour — When used for cleaning wheat, barley and other grains, capacities are increased two to three times those listed for flaxseed					
Approximate shipping weight, pounds	1100	1500	1900	2300	2650

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	2	3	4	5	6
Fan outlet openings, depth	11½″	11½″	12½″	12½″	12½″
Fan outlet openings, width	7″	8″	8″	8″	8″
Total square inches for both fan outlets	161	184	200	200	200



"MONITOR" FLAXSEED SEPARATOR

SINGLE—STYLE "E"

WITHOUT the air work—otherwise an exact duplicate of the Style "C" on opposite page. Where screen cleaning only is demanded, for flaxseed, grain (or both) this Style "E" offers the same striking advantages as the screen equipment of the "C" opposite—both are identical in construction and operation with exception of air separations. Requiring small space and power one of these outfits will deliver the utmost perfect screen cleaning, economically and enduringly. Except the "Scalper"—screens are automatically cleaned by perfected traveling brush cleaners.

DIMENSIONS, CAPACITIES, PRICES, ETC.

SIZE NO.		2	3	4	5	6
Extreme height		5′ 2″	5′ 2″	5′ 6″	5′ 6″	5′ 6″
Extreme length		6′ 5″	6′ 5″	8′ 6″	8′ 6″	8′ 6″
Extreme width		5′ 3″	5′ 11″	6′ 2″	6′ 8″	7′ 2″
Length on floor		5′ 10″	5′ 10″	7′ 7″	7′ 7″	7′ 7″
Width on floor		4′ 0″	4′ 6″	4′ 6″	5′ 0″	5′ 6″
Height to where flaxseed enters		5′ 2″	5′ 2″	5′ 6″	5′ 6″	5′ 6″
Speed—R. P. M. of eccentric shaft		350	350	350	350	350
Size of drive pulley		10″x3″	10″x3″	12″x3″	12″x3″	12″x3″
Horse power required to operate		½	½	1	1	1
CAPACITY Bushels, per hour	Flaxseed	60 to 100	75 to 125	125 to 200	150 to 250	175 to 300
	When used for cleaning wheat, barley and other grains, capacities are increased two to three times those listed for flaxseed.					
Approximate shipping weight, pounds		850	1100	1500	1900	2200

"MONITOR" SCREENINGS SEPARATOR—STYLE "A"—No. 9

DIMENSIONS, CAPACITIES, PRICES, ETC.

Extreme height	13′ 10″	Height to where stock enters	13′ 5″
Extreme width	10′ 5″	Width on floor	8′ 0″
Length on floor	10′ 4″	Height to center eccentric shafts	1′ 8″ / 8′ 9″
Height to center fan (drive) shaft	11′ 5″	Size of drive pulley	16″x7½″
Speed: R. P. M. of fan (drive) shaft	500	Capacity, tons hourly	3½ to 6
Speed: R. P. M. of eccentric shafts	500		
Approximate shipping weight, pounds	11500		
Extreme length	11′ 8″		

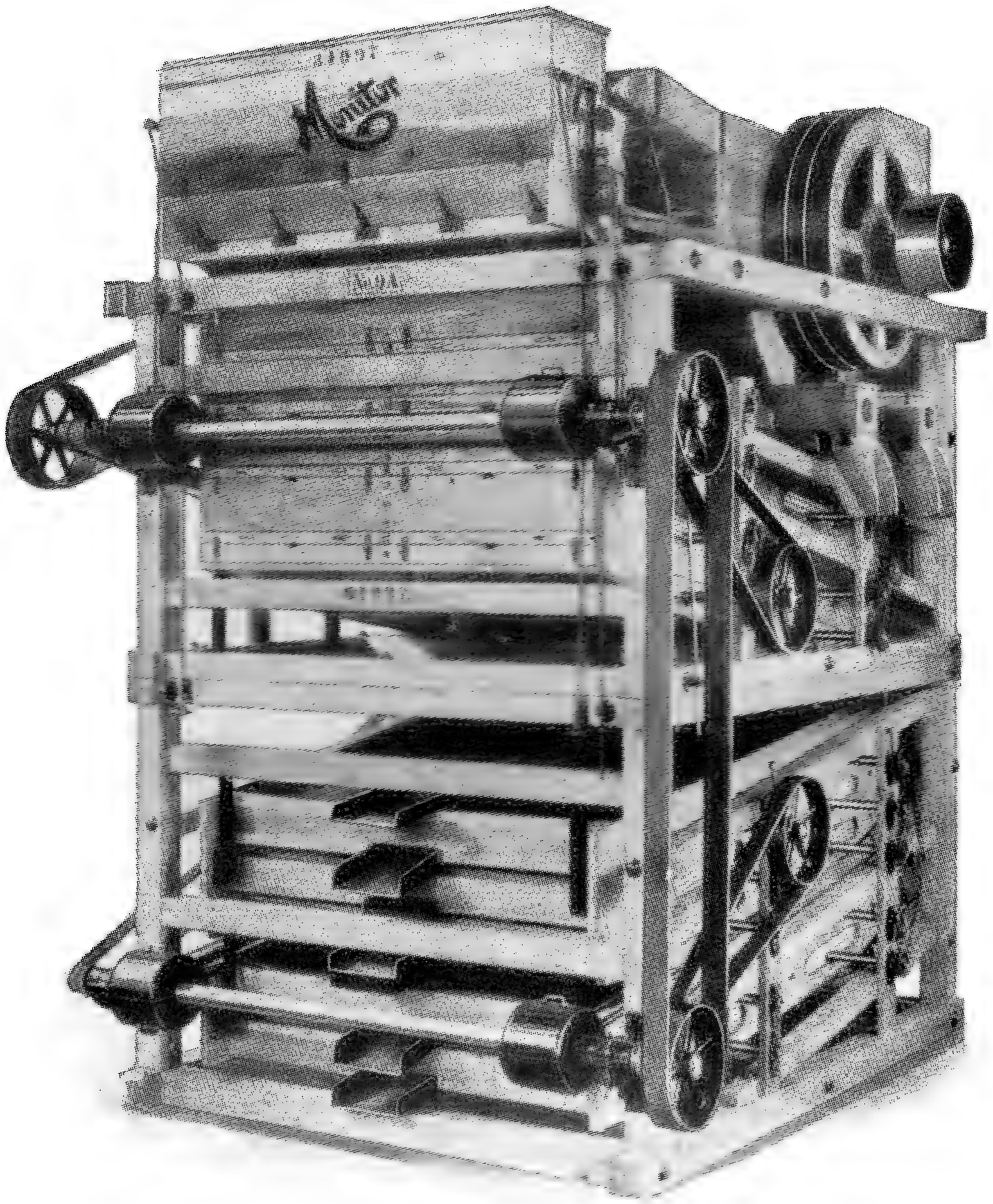
SIZE OF FAN OUTLETS—INSIDE MEASURE

Fan openings, depth	15½″	Total square inches for both	326
Fan openings, width	10½″		

CONSTRUCTION—EQUIPMENT

Shoes carrying screens are inter-reinforced construction, self-balancing in motion——Nine* runs of screens of interchangeable sections, removable by drawing from end of shoes; screen frames are heavy construction, formed in templets to insure free, true fit—covered with durable metal and drawn steel wire——Automatic, adjustable, sieve cleaners continuously clean all screens (except the "Scalper")——Fan and eccentric shafts are uncommonly heavy, best quality steel—accurately machine finished, and—these operate in heavy-duty, dust-proof, self-oiling bearings—illustrated page 10. ("Chain," or "ring" oilers regular price; self-aligning ball bearings, for fan shaft, at extra price, see page 11)——Each shoe is driven by two heavy-service eccentrics—adjustable, dust-proof, "disc-oiler" type, see pages 6 and 7. (Two eccentric shafts, four shoes and eight eccentrics, opposed in pairs, on the Style A-9—one shaft, two shoes and four eccentrics on Styles A-6 and A-3)——Feed hopper is equipped with adjustable slide gate and revolving force feeder——Fans are low speed, large-diameter, one-piece type——Exclusive design of deep-area expansion chambers and Internal Compensating Air Regulators, see page 9——Frame and general construction, see "Heavy-Service Construction," page 5.

*Eight on the Style A-3.



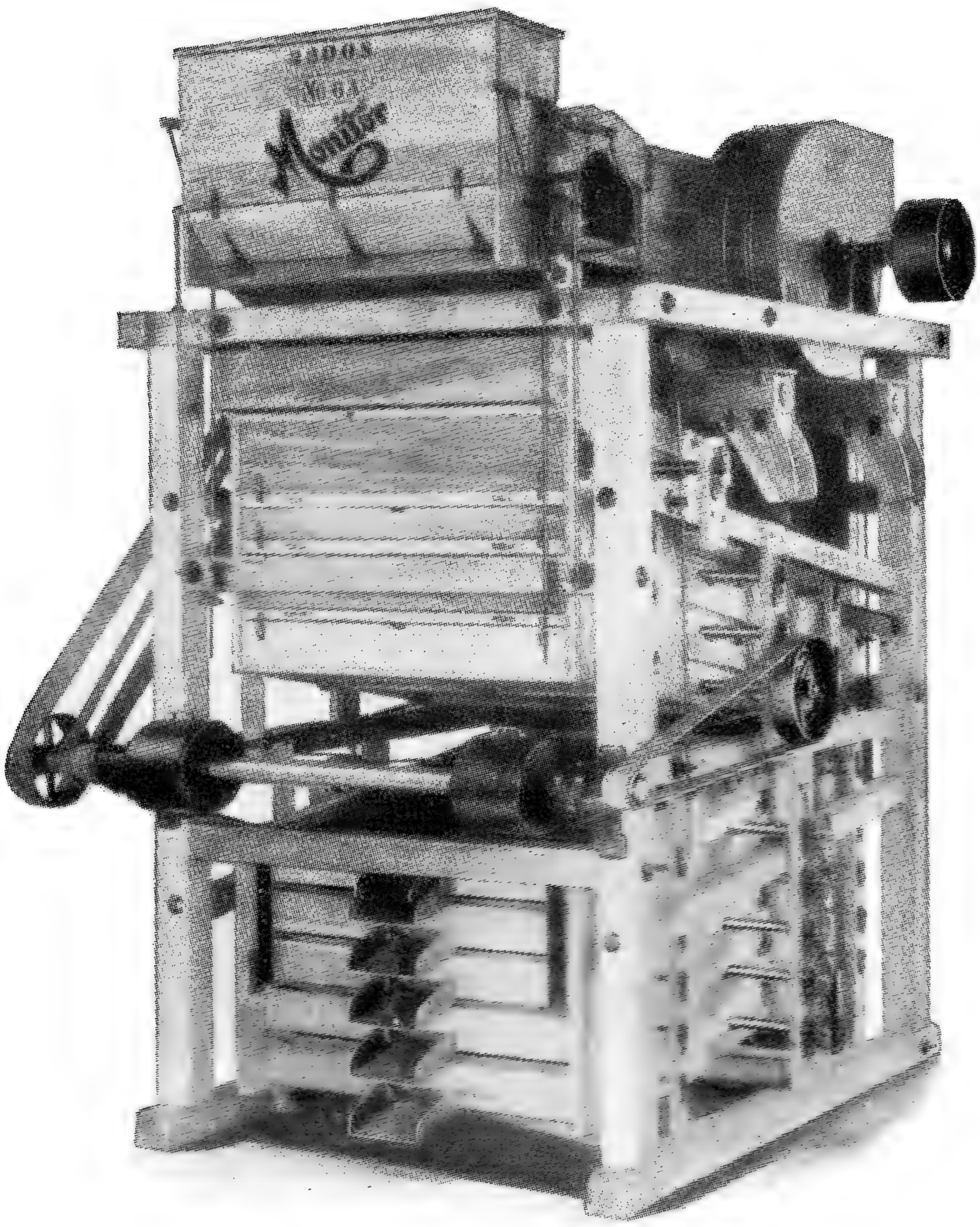
"MONITOR" SCREENINGS SEPARATOR—STYLE "A"—No. 9

—Double "Compound" (Self-Balancing) Drive

SOME twenty-five years of consistently successful service in the most expertly equipped elevators has demonstrated the constantly broadening possibilities of large profit taking by the use of one of these machines. That most of the large, modern elevators are using them exclusively reflects the known qualities of the "Monitor." Nearly all screenings contain valuable grain and seed—reclaiming these in a surprisingly simple, dependable and inexpensive manner is the service a "Monitor" renders. Every ton of screenings it handles nets the user a profit of gratifying proportions—as a money maker pure and simple it has no equal in grain elevator cleaning, or recleaning, machinery. The "Monitor" has screen area and equipment sufficient to handle the very worst mixtures to the highest advantage—nine runs of interchangeable sections of screens, each (except "Scalper") automatically cleaned by perfected design traveling brush sieve cleaners. Screen work is supplemented by two accurately controlled air separations—the stock lifted by these separations is delivered from the conveyors in a clean condition. As pioneers and acknowledged leaders in this line of manufacture we offer you, in the "Monitor," the benefit of two decades of successful concentrated effort in perfecting genuinely reliable, highly efficient, satisfyingly endurable Screenings Separators.

CONSTRUCTION—EQUIPMENT

See page 62. See pages 64 and 65—sizes Nos. 6 and 3.



"MONITOR" SCREENINGS SEPARATOR—STYLE "A," NO. 6

Compound (Self-Balancing) Drive

YOU will observe the similarity of this machine and the Style A-9 illustrated page 63—both are identical in equipment, operation and performance with one exception; of considerably lesser size and weight, with this smaller capacity machine two shoes answer perfectly for carrying the screen equipment, each shoe driven by two heavy-duty eccentrics, directly opposed in pairs, and operated by one heavy eccentric shaft—a superior self-balancing motion.

See page 63 for mention of "Monitor" Screenings Separators.

CONSTRUCTION—EQUIPMENT

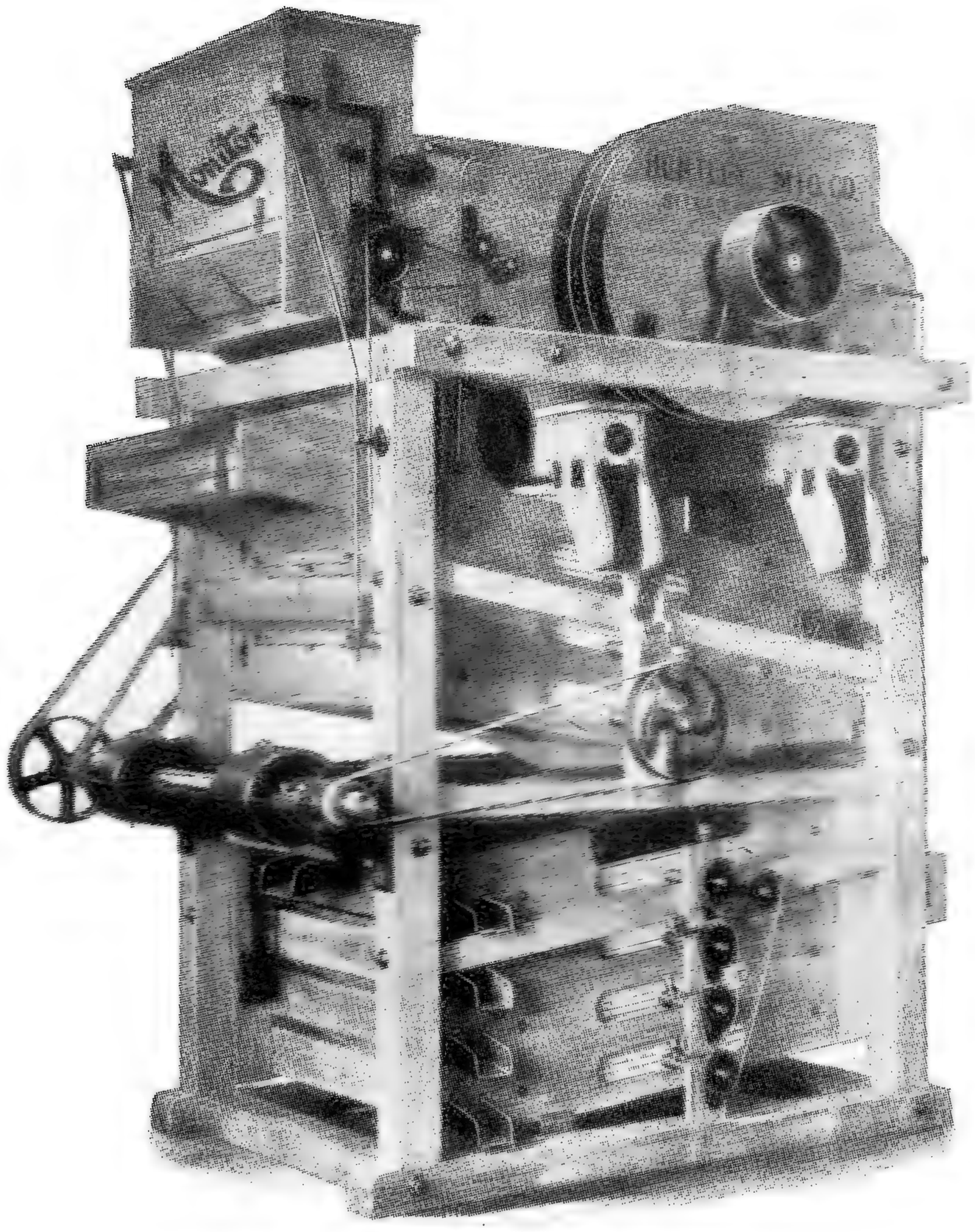
See page 62—both are the same, except in size and shoe drive, as mentioned above.

DIMENSIONS, CAPACITIES, PRICES, ETC.

Extreme height	11′ 8″	Height to where stock enters	11′ 8″
Extreme width	7′ 6″	Width on floor	5′ 3″
Length on floor	8′ 2″	Height to center eccentric shaft	4′ 2″
Height to center fan (drive) shaft	9′ 9″	Speed—R. P. M. of eccentric shaft	500
Speed—R. P. M. of fan (drive) shaft	600	Approximate shipping weight, lbs.	5800
Size of drive pulley	14″x6½″	Capacity, tons hourly	2 to 3
Extreme length	9′ 2″		

SIZE OF FAN OUTLETS—INSIDE MEASURE

Fan openings, depth...12½″ Fan openings, width...10½″ Total square inches for both...263



"MONITOR" SCREENINGS SEPARATOR—STYLE "A," NO. 3

Compound (Self-Balancing) Drive

SMALL by comparison with the Styles A-9 and A-6, pages 63 and 64—equally efficient, however, in every particular for the service required. The same superlative smoothness of operation, ease of control and close regulation—the same surprisingly true definition and wonderful evenness that distinguishes the work of the two larger sizes profits the user of this smaller outfit in direct proportion. The drive is the same as the Style A-6, opposite page—two shoes, "compound," self-balancing motion. "Scalper" screen is set forward in upper shoe and one less run of screens are employed—otherwise this and the A-6 are similar in design and equipment.

See page 63—general mention for "Monitor" Screenings Separators.

CONSTRUCTION—EQUIPMENT

See listing page 62—noting exceptions as described above.

DIMENSIONS, CAPACITIES, PRICES, ETC.

Extreme height	9′ 2″	Height to where stock enters	8′ 4″
Extreme width	6′ 2″	Width on floor	4′ 2″
Length on floor	6′ 2″	Height to center eccentric shaft	3′ 3″
Height to center fan (drive) shaft	7′ 5″	Speed—R. P. M. of eccentric shaft	500
Speed—R. P. M. of fan (drive) shaft	600	Approximate shipping weight, lbs.	3300
Size of drive pulley	12″x5½″	Capacity, tons hourly	1 to 1½
Extreme length	7′ 4″		

SIZE OF FAN OUTLETS—INSIDE MEASURE

Fan openings, depth ... 11½″ Fan openings, width.... 8″ Total square inches for both.. 184

"MONITOR" SIDE SHAKE RECLEANER

AUTOMATIC—STYLE "A"

DIMENSIONS, CAPACITIES, PRICES, ETC.

SIZE NO.	61	62	63	64	65	66	67	68
Extreme height	9′ 1″	9′ 1″	9′ 1″	9′ 3″	9′ 6″	9′ 9″	10′ 0″	10′ 6″
Extreme length	6′ 9″	6′ 9″	6′ 9″	7′ 11″	8′ 8″	9′ 8″	10′ 10″	11′ 10″
Extreme width	6′ 10″	6′ 10″	6′ 10″	6′ 11″	6′ 11″	6′ 11″	7′ 7″	7′ 7″
Length on floor	5′ 8″	5′ 8″	5′ 8″	6′ 10″	7′ 10″	8′ 10″	10′ 0″	11′ 0″
Width on floor	5′ 2″	5′ 2″	5′ 2″	5′ 2″	5′ 2″	5′ 2″	5′ 4″	5′ 4″
Height to where grain enters	8′ 1″	8′ 1″	8′ 1″	8′ 0″	8′ 4″	8′ 7″	9′ 0″	9′ 3″
Height to center of drive pulley (fan shaft)	7′ 6″	7′ 6″	7′ 6″	7′ 6″	7′ 10″	8′ 1″	8′ 6″	8′ 9″
Height to center of eccentric shaft	3′ 10″	3′ 10″	3′ 10″	4′ 0″	4′ 2″	4′ 4″	5′ 0″	5′ 3″
Speed { R. P. M. of fan (drive) shaft	550	550	550	550	550	550	550	550
Speed { R. P. M. of eccentric shaft.	400	400	400	400	400	400	400	400
Size of drive pulley	10″x5″	10″x5″	10″x5″	12″x5″	12″x5″	12″x5″	14″x6″	14″x6″
Capacity, bushels hourly, fine "wheat" screens	120	150	200	250	300	400	500	600
Approximate shipping weight, pounds	3200	3400	3600	4000	4400	4700	5000	5400

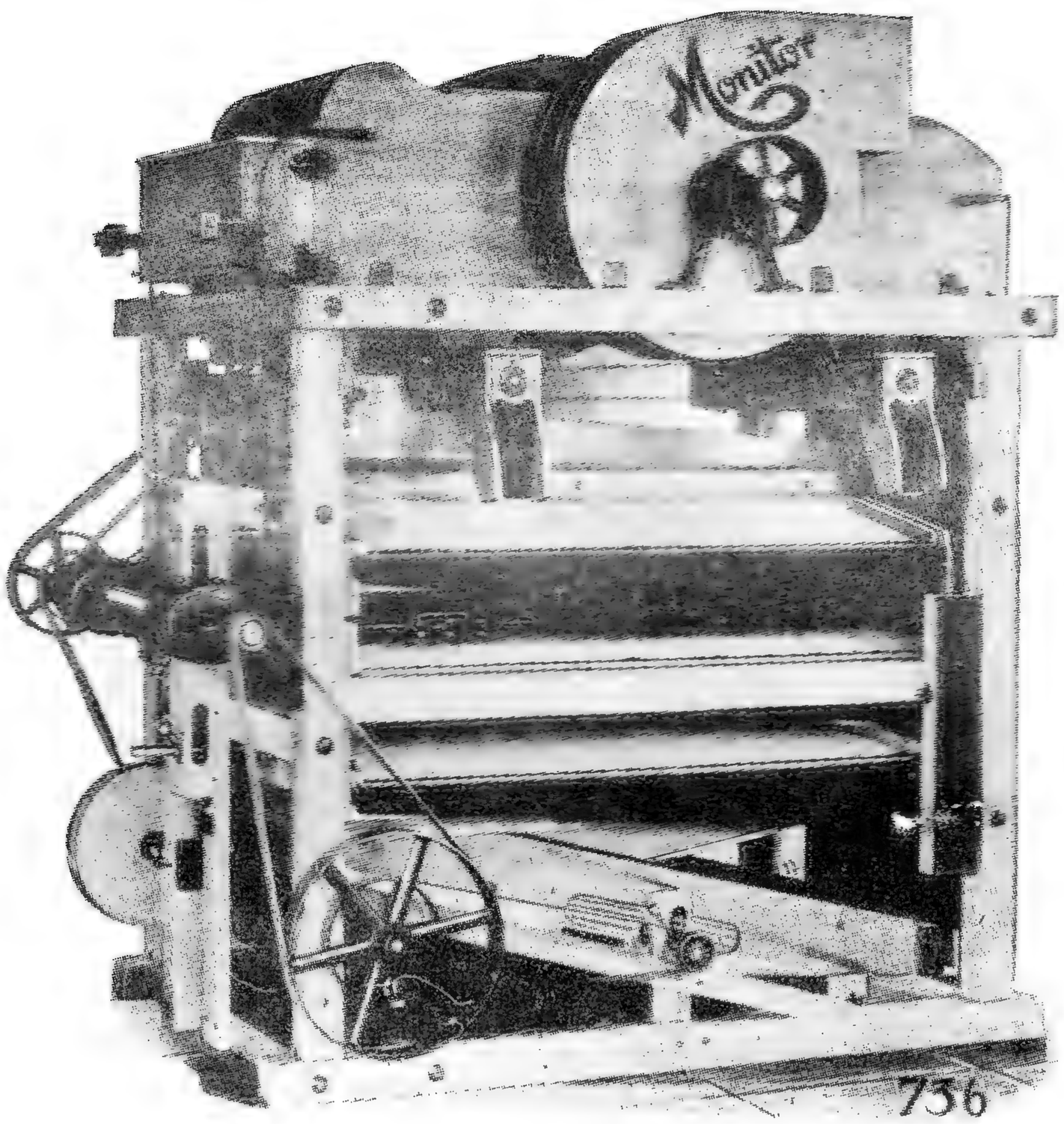
SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	61	62	63	64	65	66	67	68
Fan outlet openings, depth	12½″	12½″	12½″	13½″	13½″	13½″	14½″	14½″
Fan outlet openings, width	10 ″	10 ″	10 ″	10½″	10½″	10½″	12 ″	12 ″
Total area both fan outlets	250	250	250	284	284	284	348	348

CONSTRUCTION—EQUIPMENT

Shoes are inter-reinforced construction, self-balancing in motion—automatic, self-adjusting, gear-driven brushes under all screens, except the "Seed" runs—these cleaned with screw propelled, adjustable brush——Four runs of screens on each side (each stream) consisting of three interchangeable "Main" cleaning, and one "Seed"—all easily removable without take down of any part of machine——Extra heavy constructed screen frames, built to templet to insure free, true fit—covered with extra heavy metal——Fan and eccentric shafts are uncommonly heavy, of high-grade steel, accurately machine finished; both operate in heavy-duty, dust-proof, self-oiling bearings, "ring" or "chain" type—illustrated page 10. (Self-aligning ball bearings, for fan shaft, at extra price, if specified, see page 11)——Four heavy-service, dust-proof, adjustable, disc-oiler eccentrics (illustrated pages 6 and 7) drive the two* shoes——Feed hopper equipped with self-releasing feed gate and vibrating feeder——An adjustable gate feeder distributes grain evenly full width of screens——Escapement gate regulates suction as streams discharge from shoe into second suction leg——Fans are low-speed, large diameter, one-piece type——Exclusive design of deep-area expansion chambers and Internal Compensating Air Regulators, see page 9——Frame and general construction, read page 5 carefully.

* On size No. 65 and larger "seed" screens are carried in a separate shoe below—see cut; the drive is disc-oiler type—drive shaft carries counterweight flywheels to insure smooth running.



"MONITOR" SIDE SHAKE RECLEANER

AUTOMATIC—STYLE "A"

WHERE screen work gauged to the rarest standards for uniform trueness is desired this Cleaner answers perfectly. A marvel of simplicity and close governed control, this the smoothest running of all "side-shake" motion Separators, has many distinctive features. Screen surface is large, uncommonly so—three wide "Main" cleaning screens delivering repeated operations; every perforation automatically cleaned at twelve-second intervals by gear-driven, self-adjusting, under-the-screen traveling brushes. A "Seed" screen separation follows the work of the three repeated "Main" screen operations. Preceding and following the four-screen separations, accurately controlled air cleanings remove chaff, dust and screenings.

This is a "two stream" Machine—each side operating independently of the other, although as ordinarily employed, in exactly the same manner; if desired two kinds of cleaning work could be handled at the same time, or on exceedingly bad mixtures grain can be sent through one side of machine, elevated and run through the other side, thus four-air and eight-screen cleanings would be obtained—at one-half capacity.

The wonderfully smooth shoe motion, arrangement of "repeated operation" screens and use of screen aprons give the user option of several combinations of screen dress whereby he can successfully handle recleaning that other machines are unequal to.

Construction throughout is of the highest order—"Monitor" Standard. A quiet running, reliable, easily cared for machine that continuously performs all its functions automatically. Read pages 5, 9 and 13.

CONSTRUCTION—EQUIPMENT—see page 66.

"MONITOR" BEAN AND GRAIN RECEIVING SEPARATOR—STYLE "C"

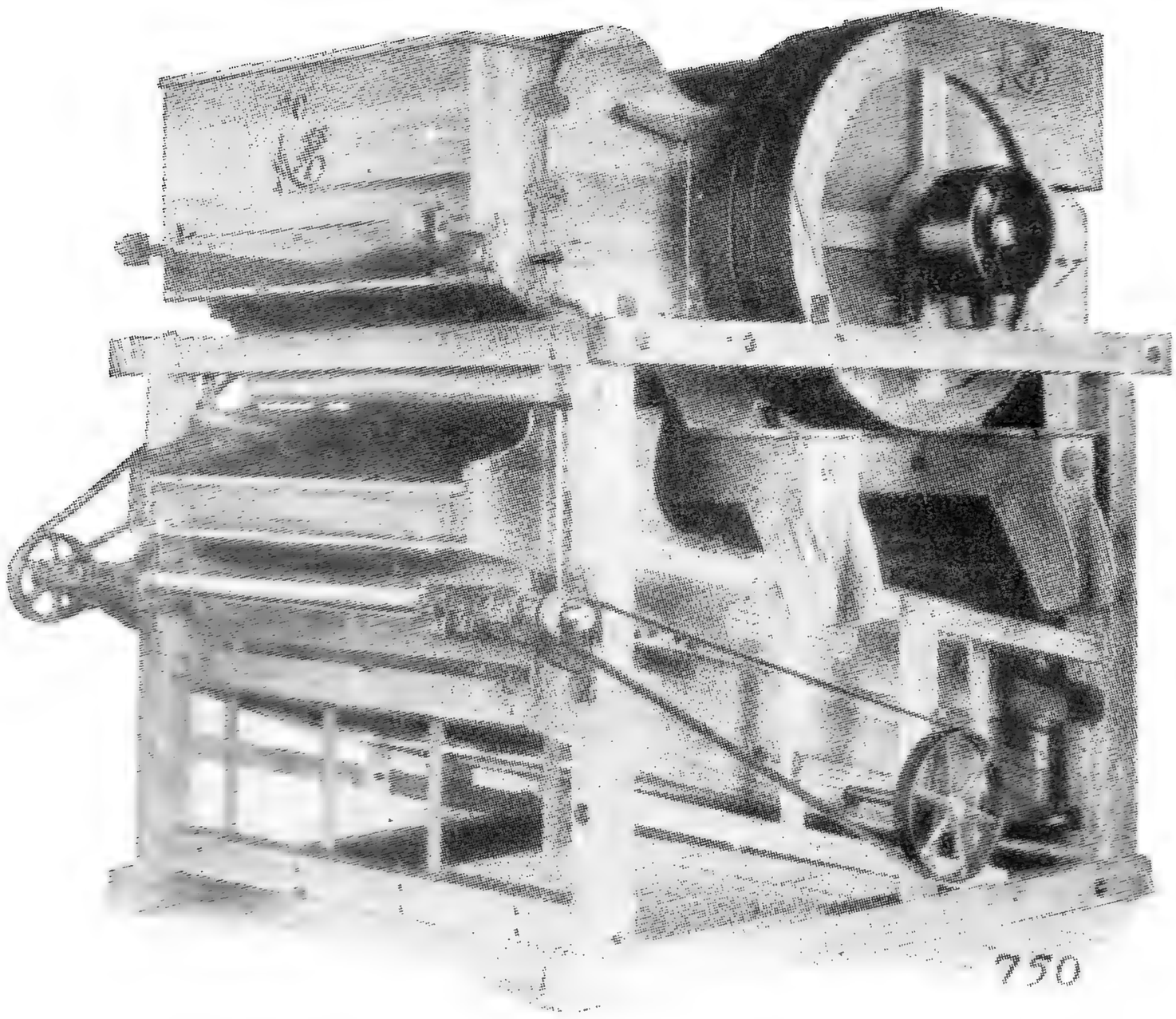
DIMENSIONS, CAPACITIES, PRICES, ETC.

(ALSO STYLES "Cc," "Ccc")

SIZE NO.			1	2	3	4	5	6	7	8	9	10	11
Extreme height			5′ 10″	6′ 6″	6′ 8″	7′ 1″	7′ 7″	7′ 10″	8′ 5″	8′ 5″	9′ 2″	9′ 2″	9′ 2″
Extreme length			5′ 4″	6′ 2″	6′ 6″	7′ 0″	7′ 5″	8′ 0″	9′ 0″	9′ 0″	10′ 5″	10′ 5″	10′ 5″
Extreme width			4′ 6″	5′ 2″	5′ 8″	6′ 5″	6′ 11″	7′ 5″	7′ 9″	8′ 6″	9′ 8″	10′ 2″	10′ 5″
Length on floor			4′ 8″	5′ 5″	5′ 9″	6′ 2″	6′ 6″	7′ 1″	7′ 9″	7′ 9″	9′ 1″	9′ 1″	9′ 1″
Width on floor			3′ 3″	3′ 10″	4′ 4″	4′ 11″	5′ 5″	5′ 10″	6′ 4″	6′ 11″	7′ 11″	8′ 5″	8′ 11″
Height to where beans and grain enter			5′ 6″	5′ 10″	6′ 0″	6′ 4″	6′ 10″	7′ 1″	8′ 2″	8′ 2″	8′ 5″	8′ 8″	8′ 11″
Height to center of drive pulley (fan shaft)			4′ 6″	5′ 0″	5′ 1″	5′ 5″	5′ 8″	5′ 11″	6′ 5″	6′ 5″	6′ 9″	6′ 9″	6′ 9″
Height to center of eccentric shaft			2′ 2″	2′ 3″	2′ 5″	2′ 8″	2′ 8″	2′ 10″	3′ 2″	3′ 2″	2′ 7″	2′ 7″	2′ 7″
Speed	R. P. M. of fan (drive) shaft	For beans	800	750	750	700	700	700	700	700	700	725	750
		For grain	600	600	600	550	550	500	500	500	500	525	550
	R. P. M. of eccentric shaft	For beans	600	600	600	600	600	600	550	550	550	550	550
		For grain	600	600	600	575	550	550	550	550	525	525	500
Size of drive pulley			7″x5″	7″x5″	8″x5″	10″x5″	12″x5″	12″x6″	14″x6″	14″x7″	16″x7″	16″x7″	16″x7″
CAPACITY Bushels, per hour	Wheat—Fine screens		30	60	120	180	300	450	600	750	900	1050	1200
	Wheat—Medium screens		50	100	200	300	500	750	1000	1250	1500	1750	2000
	Wheat—Coarse screens		100	200	400	600	1000	1500	2000	2500	3000	3500	4000
	Barley—Fine screens		40	60	100	150	250	350	500	650	800	900	1100
	Barley—Coarse screens		50	100	200	300	500	750	1000	1250	1500	1750	2000
	Corn or Oats—Coarse screens		75	150	300	450	750	1200	1500	2000	2500	3000	3500
	Beans or Peas—Coarse screens		25 to 35	40 to 60	70 to 120	125 to 190	200 to 275	300 to 400	400 to 500	500 to 600	700 to 800	900 to 1000	1000 to 1100
Approximate shipping weight, pounds			1200	1450	1700	2050	2600	3200	3800	4200	5100	5500	6100

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	1	2	3	4	5	6	7	8	9	10	11
Fan outlet openings, depth	9″	11½″	12½″	13½″	14½″	15½″	16¼″	16¼″	19¼″	19¼″	19¼″
Fan outlet openings, width	6″	7″	8″	9″	10″	10½″	11″	12¼″	12¼″	12¼″	12¼″
Total square inches for both fan outlets	108	162	200	244	290	326	358	398	472	472	472



"MONITOR" BEAN AND GRAIN RECEIVING SEPARATOR

Compound (Self-Balancing) Drive

STYLE "C"

EQUALLY efficient—for cleaning beans or grain as they come from the grower, or shipper. A Cleaner notably popular with experienced users in sections where both beans and grain are handled, by reason of its demonstrated simplicity, reliable efficiency, economy and durability.

Five cleaning operations: Two uniformly true air separations are performed —pods, "splits" and foreign matter of lesser weight than the beans (screenings and impurities lighter in weight than good grain) are removed without a loss of good stock. In efficiency and economy "Monitor" air cleaning is unrivalled—another outstanding advantage is their light power consumption. Three repeated screen separations are performed—sticks, pods, and coarse trash larger in size, also "splits," foul seeds and dirt smaller than beans (or grain) are thoroughly removed. Large-area screens and their superior arrangement, with improved self-balancing shoe drive insure unmatchable evenness in screen work. Accessibility, and true adjustments give the greatest latitude and closest control. A sturdy, perfectly equipped, simply operated cleaner.

Read pages 5, 9 and 13.

CONSTRUCTION—EQUIPMENT

Shoes are inter-reinforced construction—our exclusive design of one-over-the-other suspension, each driven by two heavy-duty, dust-proof, self-oiling eccentrics (see page 8), opposed in pairs and operated by one uncommonly heavy eccentric shaft——Both fan and eccentric shafts are large diameter, best quality steel, machine finished—these operate in heavy-service, dust-proof, self-oiling bearings, see page 10. (Ball bearings, at extra price, see page 11)——Three runs of screens, interchangeable sections, easily removable—built to templet for accurate fit, covered with durable metal ——Automatic traveling brush sieve cleaners attached to lower run——Feed hopper has adjustable gate valve and vibrating feeder——"Air Separations"—read page 9——Frame and general construction, described page 5.

"MONITOR"

BEAN AND PEA POLISHER, CLEANER AND GRADER

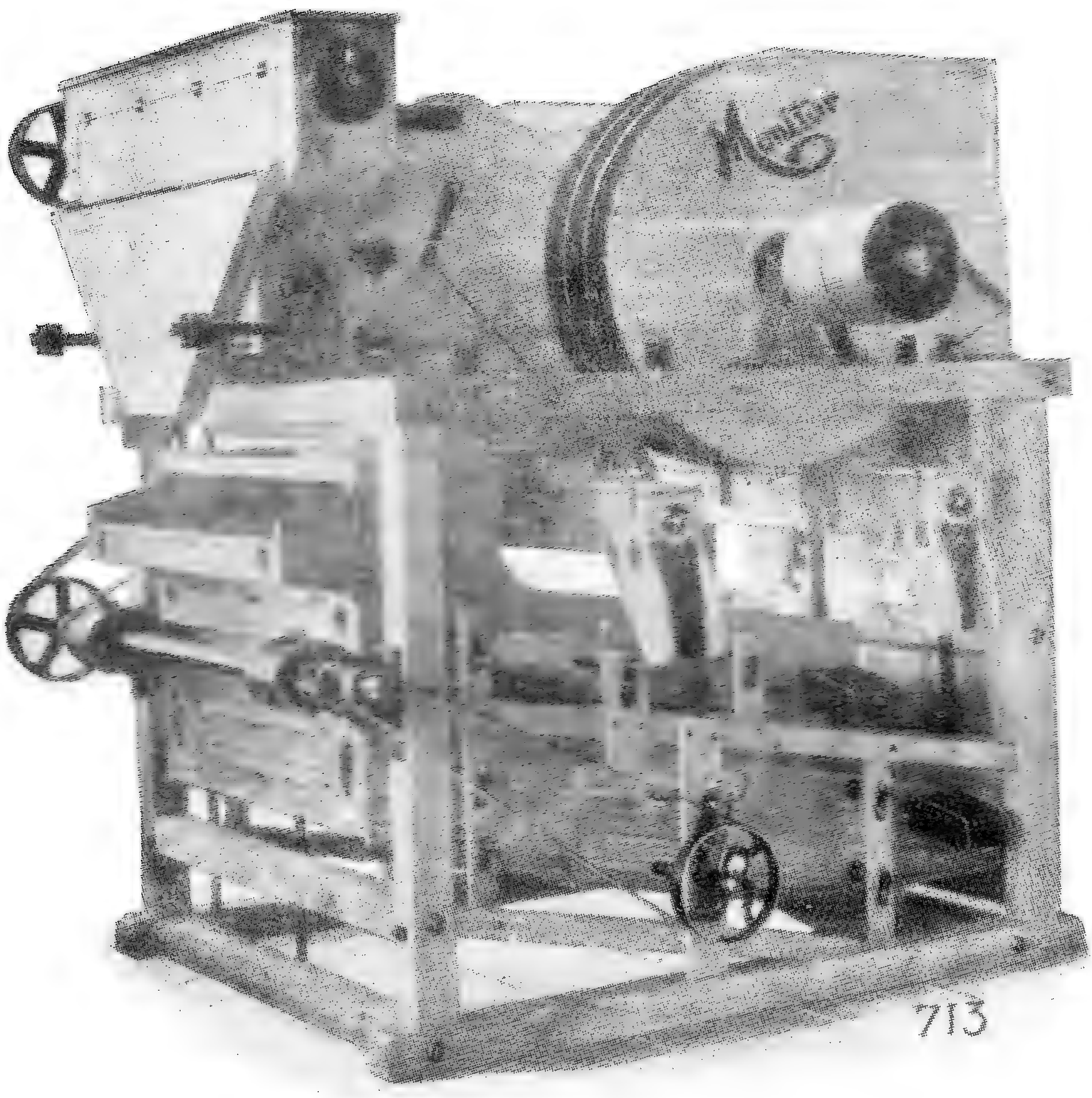
Automatic—Compound (Self-Balancing) Drive

DIMENSIONS, CAPACITIES, PRICES, ETC.

SIZE NO.			2	3	4	5	6
Extreme height			7′ 3″	7′ 6″	7′ 9″	8′ 2″	8′ 5″
Extreme length			6′ 2″	6′ 6″	7′ 0″	7′ 6″	8′ 3″
Extreme width			5′ 11″	6′ 9″	7′ 6″	8′ 3″	8′ 8″
Length on floor			5′ 4″	5′ 9″	6′ 2″	6′ 6″	7′ 4″
Width on floor			3′ 10″	4′ 4″	4′ 11″	5′ 5″	5′ 10″
Height to where peas and beans enter			7′ 3″	7′ 6″	7′ 9″	8′ 2″	8′ 5″
Height to center of drive pulley (fan shaft)			5′ 6″	5′ 8″	5′ 11″	6′ 1″	6′ 4″
Height to center of eccentric shaft			2′ 11″	2′ 11″	3′ 1″	3′ 2″	3′ 2″
Speed	R. P. M. of fan (drive) shaft	For Beans	750	750	700	700	700
		For Grain	600	600	550	550	500
	R. P. M. of eccentric shaft	For Beans	600	600	600	600	600
		For Grain	600	600	575	550	550
Drive pulley, tight and loose	Diameter		9″	9″	10″	12″	12″
	Face		5″	5″	5″	5″	6″
CAPACITY* Bushels, per hour	When used as a "Receiving" Cleaner		100	135	185	250	325
	When used for grading and polishing		25 to 35	35 to 45	45 to 60	65 to 85	100 to 120
Approximate shipping weight, pounds			1850	2100	2550	3100	3500

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	2	3	4	5	6
Fan outlet openings, depth	11½″	12½″	13½″	14½″	15½″
Fan outlet openings, width	7″	8″	9″	10″	10½″
Total square inches for both fan outlets	161	200	243	290	326



"MONITOR"

BEAN AND PEA POLISHER, CLEANER AND GRADER

Automatic—Compound (Self-Balancing) Drive

SIMPLIFYING, standardizing and economizing bean (or pea) cleaning and grading to the utmost, and also performing polishing and clay removal operations, this machine automatically and enduringly delivers a quality and quantity of work unequalled. The phenomenal discrimination of the two independently governed air separations, the unmatchable accuracy of the four-screen cleaning and grading operations are an incomparable combination of thoroughness and efficiency—a perfect answer for every demand from regular "receiving," or first cleaning, to the skillful manipulations of the expert operator working to close calculations for the highest yield in style and grade value.

This machine will separate and remove all "splits" from whole peas or beans—and also, all damaged peas or beans except such as are perfectly smooth, and of the same size and weight as sound ones. It will remove from 40 to 80% of peas or beans damaged by water, frost or sweating—which ordinarily must be picked out by hand; on light shrinkage stock almost all hand picking is eliminated. When the Polisher is engaged 70 to 90% of clay balls are removed; beans that have become dirty from handling while damp are reclaimed by the use of this Polisher.

The sharply defined betterment in grade definition and surprisingly smaller shrinkage loss are pleasing, profitable features of the "Monitor." Consuming light power for the service rendered, easily and dependably operated, these superiorly designed and constructed machines have regularly, for some twenty years, outcleaned and outgraded the best in modern machinery offered for similar service. Grain cleaning—of a surpassingly high standard is performed by this machine—with suitable screens and lower speed for fans—see table opposite page. See page 70.

"MONITOR" SEED POLISHER, CLEANER AND GRADER

Automatic—Compound (Self-Balancing) Drive

DIMENSIONS, CAPACITIES, PRICES, ETC.

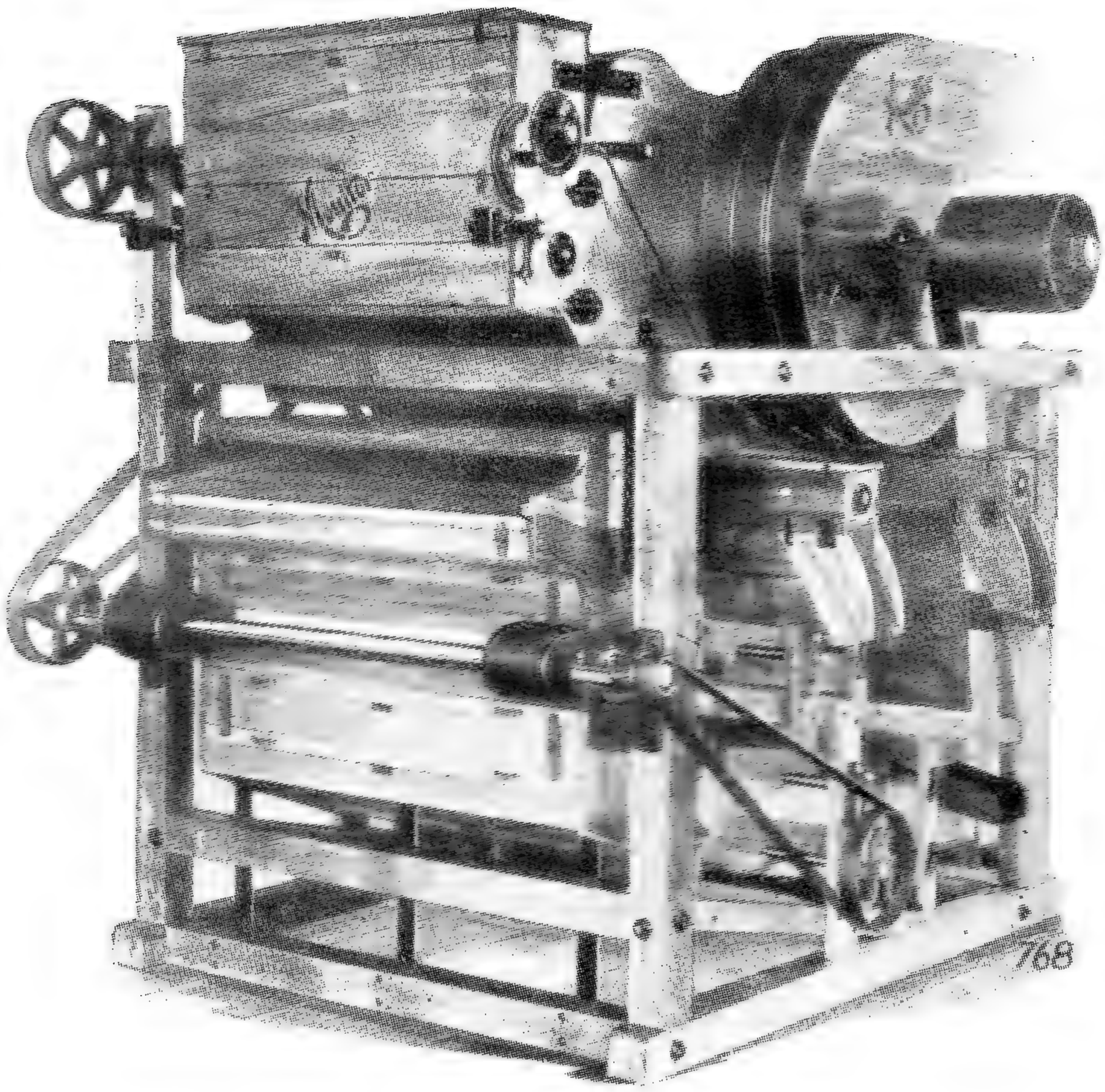
SIZE NO.	2	3	4	5	6
Extreme height	7′ 0″	7′ 3″	7′ 7″	8′ 0″	8′ 4″
Extreme length	6′ 2″	6′ 6″	7′ 0″	7′ 6″	7′ 11″
Extreme width	5′ 11″	6′ 9″	7′ 6″	8′ 3″	8′ 8″
Length on floor	5′ 4″	5′ 9″	6′ 2″	6′ 6″	7′ 4″
Width on floor	3′ 10″	4′ 4″	4′ 11″	5′ 5″	5′ 10″
Height to where seed enters	6′ 10″	7′ 1″	7′ 6″	7′ 10″	8′ 0″
Height to center of drive pulley (fan shaft)	5′ 5″	5′ 8″	5′ 11″	6′ 1″	6′ 4″
Height to center of eccentric shaft	2′ 10″	2′ 10″	3′ 1″	3′ 2″	3′ 2″
Speed { R. P. M. of fan (drive) shaft	400	400	400	400	400
Speed { R. P. M. of eccentric shaft	550	550	550	550	550
Size of drive pulley—tight and loose	8″x5″	8″x5″	10″x5″	12″x5″	12″x6″
Capacity, bushels per hour	15 to 25	25 to 35	40 to 50	55 to 70	75 to 90
Approximate shipping weight, pounds	1900	2200	2600	3100	3500

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	2	3	4	5	6
Fan outlet openings, depth	11½″	12½″	13½″	14½″	15½″
Fan outlet openings, width	7 ″	8 ″	9 ″	10 ″	10½″
Total square inches for both fan outlets	161	200	244	290	326

SEE 12-PAGE FOLDER

INTERESTINGLY illustrating and describing the construction and performance of "Monitor" Seed Cleaners—a twelve-page folder, which we will cheerfully send to all who ask for a copy. Our experience covers over twenty-five years of designing and perfecting high-efficiency Cleaners for seed dealers in this and many foreign countries—machines that square with an almost unlimited number of varying requirements. As "Monitors" are the only accepted standard for all thorough, final cleaning performance in the handling of choice seeds, so are they the least expensive and most economical—as our twelve-page folder convincingly explains.



"MONITOR" SEED POLISHER, CLEANER AND GRADER

Automatic—Compound (Self-Balancing) Drive

UNIFORMITY—the chief basic requirement in seed cleaning reaches the highest peak of perfection with this machine, a standard of unparalleled efficiency maintained with marvelous regularity and astonishing simplicity—reasons for its use in almost every prominent seed house.

The "Monitor" cleans and grades (also polishes, if desired) to perfection, handling practically every variety of field, vine, flower and garden seed—the multitude of cleaning uses to which it is readily adaptable is quite as surprising as its thorough, non-wasteful work. The preference of expertly experienced seed handlers for "Monitors" is due to: exclusive, approved design and construction of the shoes and screens, four runs of interchangeable sections, a combination of smoothly vibrated, large-area, automatically (except "Scalper") cleaned screens; air separations unequalled for quickly responsive, true control and unfailingly uniform definition—regularly delivering separations such as the removal of dead seed in clover and alsyke without a sacrifice of good seed and perfect separations of timothy seed from alsyke, work no other cleaner has ever accomplished. In the most practical and economical manner the "Monitor" owner handles every ordinary range of "straight" cleaning and grading, putting his seeds to standards of purity and style that command the highest prices—on recleaning of mixtures, or accumulations of tailings and sweepings the "Monitor" develops amazing efficiency, disclosing profit-making possibilities that are unknown to any other cleaner. Light power, low upkeep, simplicity and accessibility—rugged endurance and dependability are noteworthy features of these perfectly built and equipped "Monitors"—the World's standard for a quarter of a century. See mention of detailed literature opposite page.

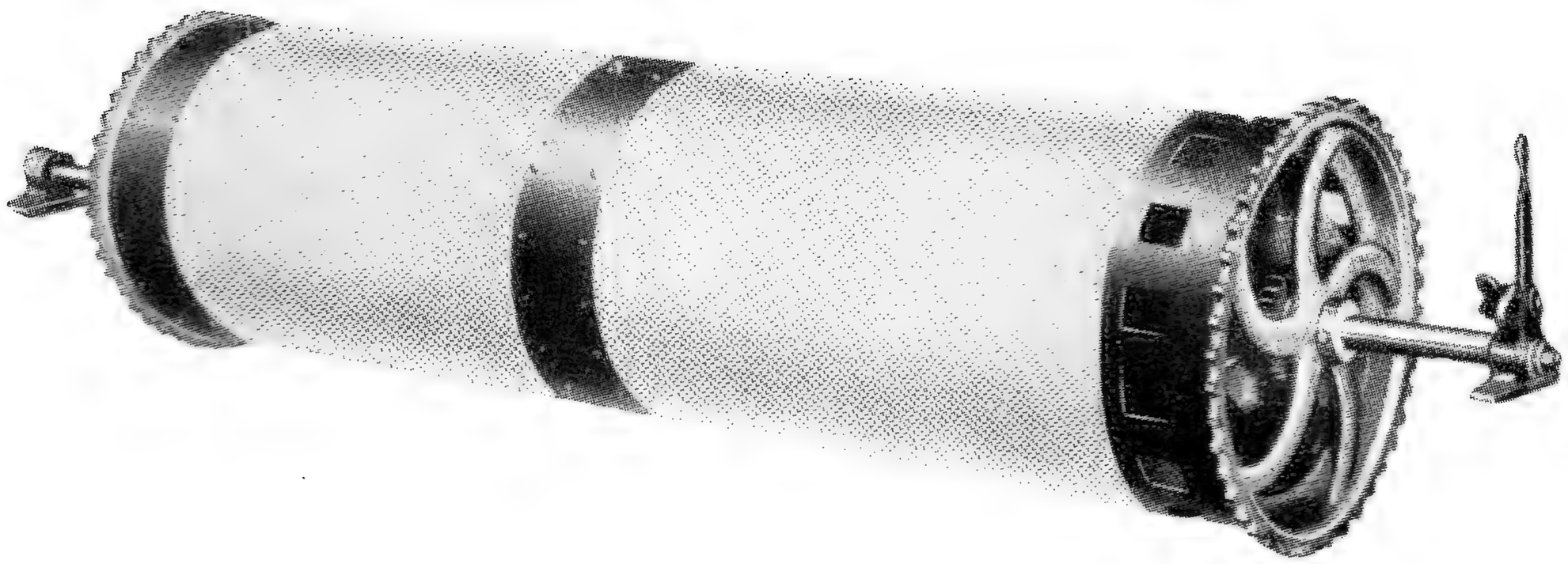


"MONITOR" SPIRAL GRAVITY SEPARATOR

REQUIRING no power, little attention and small space this simple, all-metal Separator can quickly and easily be set to service at any convenient place in the elevator, or seed house—to automatically perform separations ordinary screen and air cleaning machines will not deliver. It is designed for use on screenings, or mixtures of grain or seeds containing mustard, vetch, turnip, rape seed, wild peas, or other seeds which are spherical in shape. Where such mixtures have had a preliminary cleaning to remove all coarse trash, light dust and impurities this Spiral Machine, by a combination of gravity and centrifugal travel, gives a perfect separation of the round shaped seeds. Its only expense is its first cost, which is trivial compared with its earning powers. If you are selling screenings containing valuable seeds that are round in shape you are suffering a needless loss—one, or more, of these simple outfits will prove a money making proposition. Send us samples of your screenings, or mixtures—we will test them out, sending full particulars as to capacity and just what you can safely expect from one of these machines.

DIMENSIONS, PRICES, ETC.

Extreme height	7′ 6″
Extreme width	2′ 6″
Extreme depth	1′ 7″
Size on floor, diameter	1′ 6″
Shipping weight, pounds	150



"MONITOR" INDENTED CYLINDERS

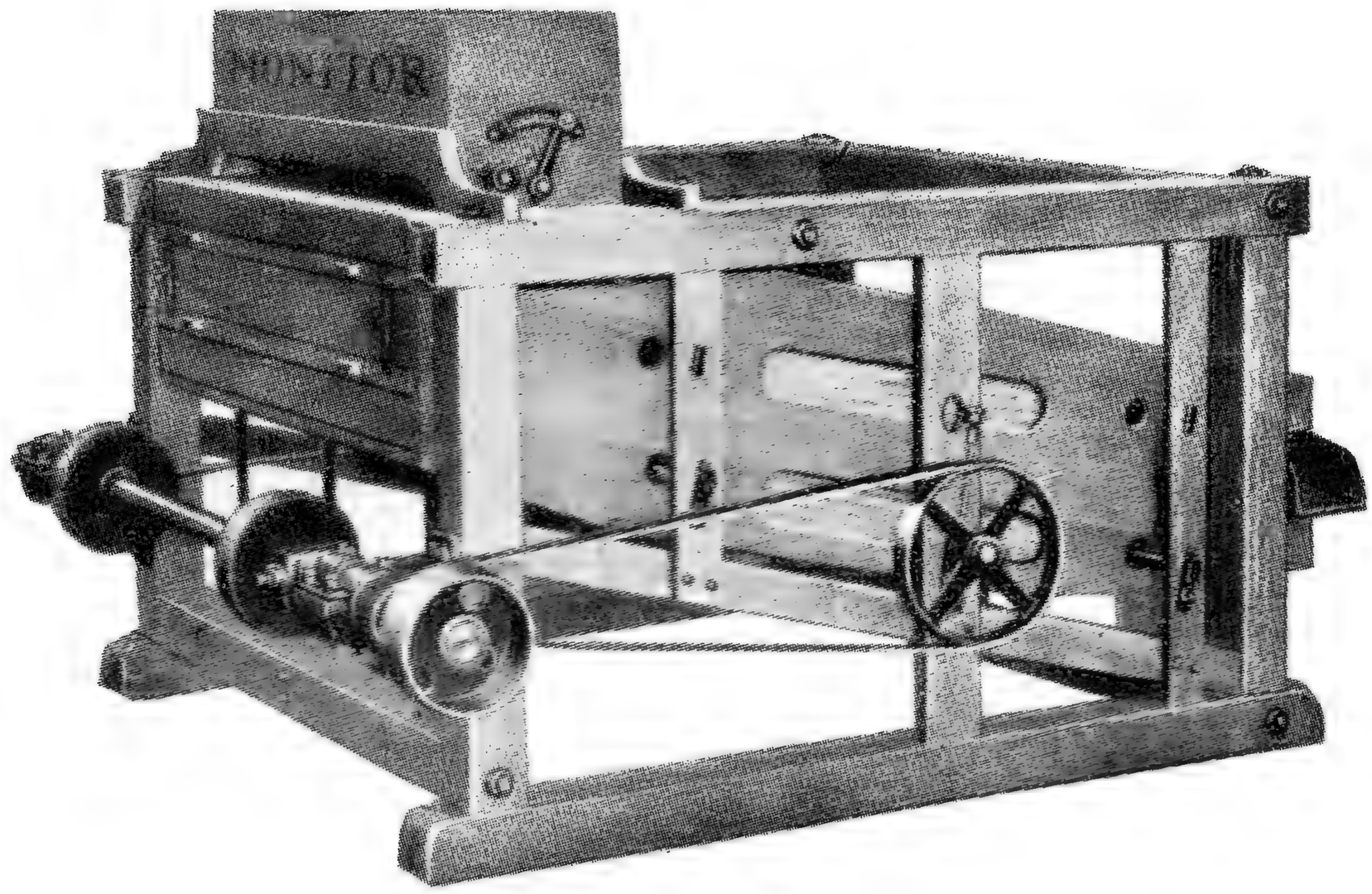
REMOVING cockle, vetch, wild peas, wild turnip and other round, or semi-spherical seeds from wheat, barley, rye or oats the Indented Cylinder proves a valuable help in simply and inexpensively performing separations the most elaborate air and screen cleaning systems frequently fail to deliver. Easily installed at light expense and adaptable to service at any convenient place in the elevator, or cleaning house, "Monitor" Cylinders render desirable service with small power, infrequent attention and freedom from renewals or upkeep expense. "Monitor" Indented Cylinders are mechanically perfect—the result of unremitting improvement and refinement—their advantageous features are: Uncommonly heavy construction; free, true adjustment; superior workmanship, fit and finish; heavier-than-ordinary metal for the indented shell, and a perfected method of indenting same—unfailingly uniform separations at full rated capacities and endurance which outlasts years of continual usage.

Each cylinder is furnished complete, as illustrated, with adjusting lever, bearing for each end of shaft, and driving sprocket for link chain drive. If preferred, belt drive from any point around the indented shell is satisfactory.

For greater capacity than the tables below give we can furnish batteries of any desired number of cylinders, mounted in heavy, hardwood supporting frames—self-contained, direct-connected, requiring one drive only. Literature and prices on request.

DIMENSIONS, CAPACITIES, PRICES, ETC.

SIZE NO.	1	2	3	4	5	6
Diameter of cylinder	20"	20"	22"	22"	24"	24"
Extreme length	8' 1"	9' 1"	8' 1"	9' 1"	8' 1"	9' 1"
Length of cylinder	6' 1"	7' 1"	6' 1"	7' 1"	6' 1"	7' 1"
Speed—R. P. M.	15 to 18	15 to 18	14 to 17	14 to 17	13 to 16	13 to 16
Capacity, bushels per hour	20	25	30	35	40	45
Shipping weight, pounds	600	650	650	700	700	750



"MONITOR" RECEIVING AND SCALPING SHOE

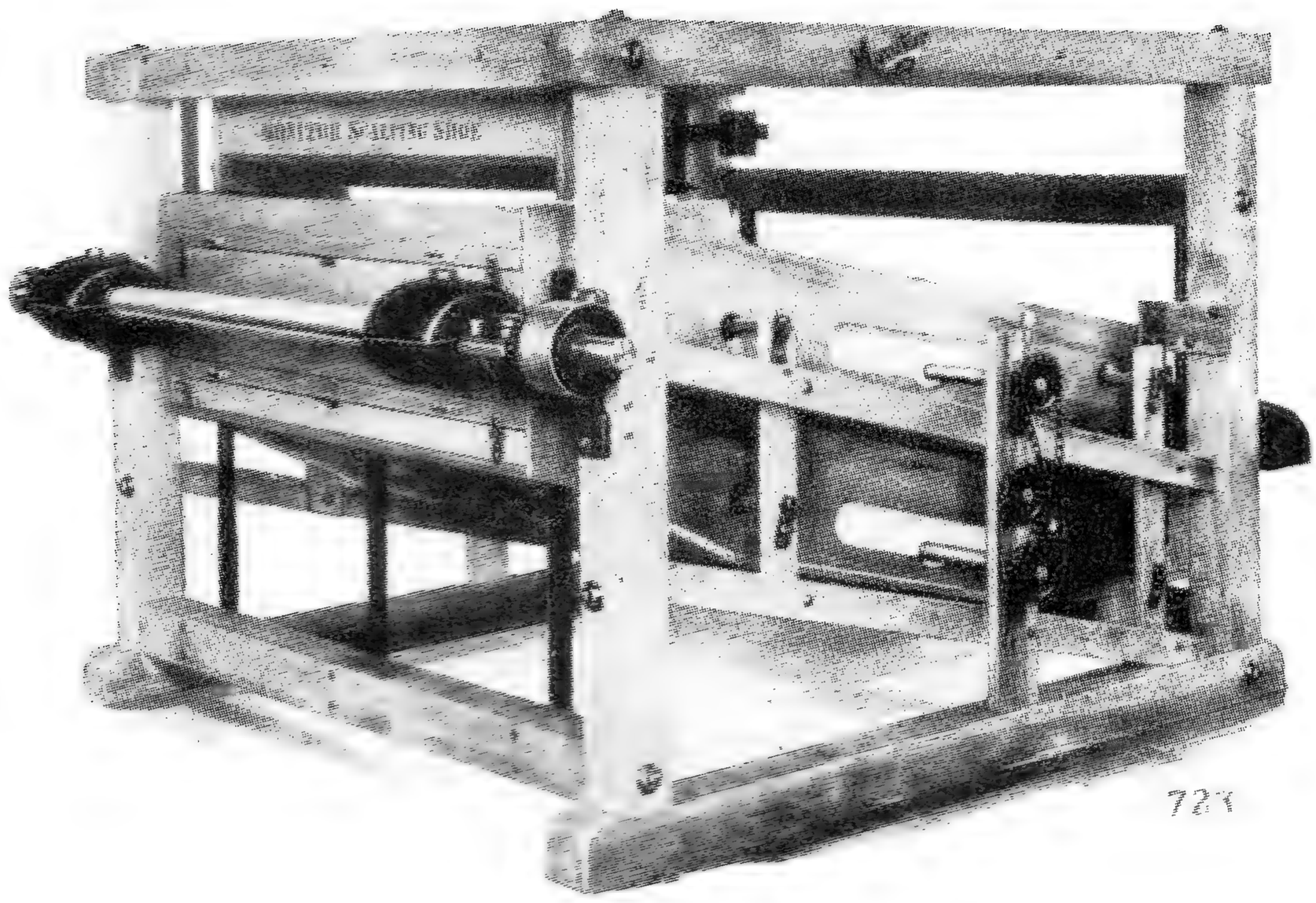
"Single Shoe" (Counterweight) Drive

AS a "Scalper," or for any semi-fine cleaning that does not require air work this two-run-of-screens shoe offers many advantages. Screens are of interchangeable sections, easily withdrawn from front end, and have uncommonly large area; automatic, under-the-screen sieve cleaners can be attached to either, or both screens, insuring full capacity and the maximum of true separations under all conditions.

Heavy-service construction, painstaking workmanship and finish are features. Shoe carrying screens is "one-piece" type, counterbalanced in motion by counterweight wheels attached to eccentric shaft. Main supporting frame is heavy design, of air-dried, selected hardwood, mortised and tenoned, stayed with heavy bolts. Feed hopper has adjustable feed gate and vibrating distributor. Eccentric shaft is large diameter, high-grade steel, accurately machine finished—operating in dust-proof, self-oiling bearings (see page 10). Two heavy-duty, dust-proof, self-oiling eccentrics drive the shoe—see page 8.

DIMENSIONS, CAPACITIES, PRICES, ETC.

SIZE NO.	41	42	43	44	45	46	47	48
Extreme height	3′ 7″	3′ 8″	3′ 11″	4′ 1″	4′ 4″	4′ 7″	4′ 8″	4′ 8″
Extreme length	4′ 4″	5′ 1″	5′ 6″	5′ 10″	6′ 3″	6′ 7″	7′ 7″	7′ 8″
Extreme width	3′ 5″	3′ 11″	4′ 5″	5′ 0″	5′ 7″	5′ 11″	6′ 6″	7′ 1″
Length on floor	4′ 2″	4′ 9″	5′ 1″	5′ 5″	5′ 9″	6′ 3″	6′ 9″	6′ 9″
Width on floor	2′ 8″	3′ 2″	3′ 8″	4′ 3″	4′ 9″	5′ 2″	5′ 7″	6′ 2″
Height to where grain enters	3′ 7″	3′ 8″	3′ 11″	4′ 1″	4′ 4″	4′ 7″	4′ 8″	4′ 8″
Height to center of drive pulley	10″	1′ 0″	1′ 2″	1′ 4″	1′ 6″	1′ 8″	2′ 0″	2′ 0″
Speed—R. P. M. of eccentric shaft	600	600	600	600	600	600	600	600
Size of drive pulley	5″x3½″	5″x3½″	6″x3½″	6″x3½″	6″x3½″	6″x3½″	8″x3½″	10″x3½″
CAPACITY Bushels per hour — Wheat—Fine screens	30	60	120	180	300	450	600	750
CAPACITY Bushels per hour — Wheat—Coarse screens	100	200	400	600	1000	1500	2000	2500
CAPACITY Bushels per hour — Corn or Oats—Coarse	75	150	300	450	750	1200	1500	2000



"MONITOR" RECEIVING AND SCALPING SHOE

Compound (Self-Balancing) Drive

FOR smoothness in operation, quiet running, ease of control and true uniformity in separations this model excels, widely—our reply to the demand for a general-purpose, highly efficient shoe that will outlast the severest service. Two deep runs of (interchangeable) screens, one each carried in separate shoes, which are suspended one over the other—each driven by two heavy-duty, dust-proof, self-oiling eccentrics (see page 8), opposed in pairs, and operated by one uncommonly heavy eccentric shaft, which travels in dust-proof, self-oiling bearings (illustrated page 10). Automatic, under-the-screen sieve cleaners can be attached to either, or both of the large-area screens, giving maximum capacity and uniformly true separations continuously. Main frame is ultra-heavy construction, of air-dried, selected hardwood, machine mortised and tenoned—secured to place with heavy bolts. Feed hopper is provided with adjustable feed gate and vibrating distributor. In thoroughness of equipment and cleaning performance this light-powered, pleasingly simple shoe exceeds the demand of the most severely critical users.

DIMENSIONS, CAPACITIES, PRICES, ETC.

SIZE NO.		75	76	77	78	79	80	81	82	83
Extreme height		4′ 5″	4′ 7″	4′ 11″	4′ 11″	5′ 4″	5′ 4″	5′ 4″	5′ 4″	5′ 4″
Extreme length		6′ 8″	7′ 3″	7′ 11″	8′ 0″	9′ 3″	9′ 3″	9′ 3″	9′ 3″	9′ 3″
Extreme width		5′ 10″	6′ 6″	6′ 10″	7′ 3″	8′ 5″	8′ 11″	9′ 6″	10′ 1″	10′ 9″
Length on floor		5′ 9″	6′ 4″	7′ 0″	7′ 0″	8′ 4″	8′ 4″	8′ 4″	8′ 4″	8′ 4″
Width on floor		5′ 5″	5′ 10″	6′ 4″	6′ 11″	7′ 11″	8′ 5″	8′ 11″	9′ 5″	9′ 11″
Height to where grain enters		4′ 5″	4′ 7″	4′ 11″	4′ 11″	5′ 4″	5′ 4″	5′ 4″	5′ 4″	5′ 4″
Height to center of drive pulley		2′ 6″	2′ 8″	3′ 0″	3′ 0″	2′ 9″	2′ 9″	2′ 9″	2′ 9″	2′ 9″
Speed—R. P. M. of eccentric shaft		600	600	575	550	550	525	525	525	525
Size of drive pulley		6″x3½″	6″x3½″	8″x3½″	10″x3½″	10″x3½″	10″x3½″	10″x3½″	10″x4½″	10″x5½″
CAPACITY Bushels, per hour	Wheat—Fine screens	300	450	600	750	900	1050	1200	1350	1500
	Coarse screens	1000	1500	2000	2500	3000	3500	4000	4500	5000
	Corn or Oats—Coarse	750	1200	1500	2000	2500	3000	3500	4000	4500

Monitor
REGISTERED TRADE-MARK

FIRE-PROOF MACHINES

Wood Construction—Steel Covered
and
All Steel and Iron Construction

THAT "Monitors" in greater number than any other make of "fire-proof" Grain Cleaners are in use in the largest, modernly equipped fire-proof Elevators impressively establishes their World-wide proven qualities of superiority; "Monitors" dominate in this field of manufacture by sheer force of efficiency and dependability unequalled—endurance and economy unparalleled. The World's largest fire-proof Grain Elevator, the new "Calumet Terminal" (see illustration page 2) may safely be considered as typifying the most advanced, proven standards for equipment throughout—in it "Monitors" *only* are being used—Warehouse and Elevator Separators, Oat Clippers, Screenings Separators and Dust Packers.

The secret of our success in "fire-proof" construction is founded on one thing—no sacrifices have been made as compared with "standard" construction "Monitors"; each of the two types of "fire-proof" constructed "Monitors" embody all the strikingly superior features of our standard "Monitors" designed for similar work.

Two styles of "fire-proof" construction "Monitors" are shown: (1) Standard built Machines having all woodwork heavily, painstakingly and completely covered with sheet steel and which are increasingly popular—as compared with the other method (2) of "fire-proof" construction consisting of all steel and iron only. Judged by sales for corresponding periods the preference of a majority of the best known builders and users is for (1) Steel-Covered construction, which affords satisfyingly reasonable safety against fire. For both types of construction we claim precisely what has been demonstrated—incomparable efficiency, endurance and economy; each "Monitor" is mechanically and practically perfect, sold under the same broad guarantee as all "standard" construction "Monitors."

NOTE—We have listed and illustrated such "Monitors" as there is the greatest demand for—many other types of "fire-proof" Machines are manufactured by us—photos, blue prints and prices on application.

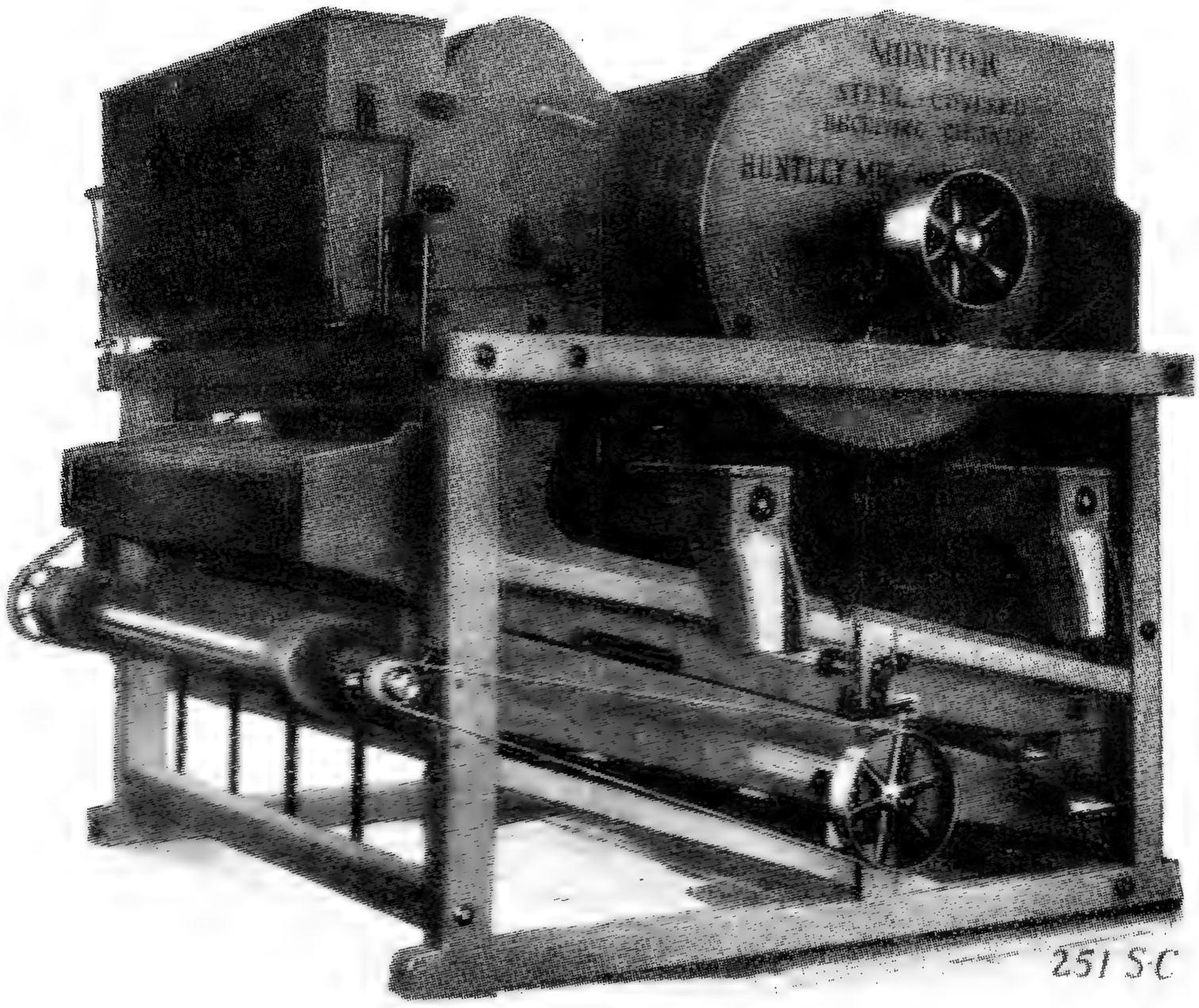
"MONITOR" WAREHOUSE AND ELEVATOR SEPARATOR

Compound (Self-Balancing) Receiving Cleaner. Wood Construction—Steel Covered

DIMENSIONS, CAPACITIES, PRICES, ETC. **STYLES "B," "C," "Cc," "Ccc," "D," "Dd"**

SIZE NO.		4	5	6	7	8	9	10	11	12	13	14	15
Extreme height		7′ 1″	7′ 7″	7′ 10″	8′ 5″	8′ 5″	9′ 2″	9′ 2″	9′ 2″	9′ 2″	9′ 5″	9′ 2″	9′ 2″
Extreme length		7′ 0″	7′ 5″	8′ 0″	9′ 0″	9′ 0″	10′ 5″	10′ 5″	10′ 5″	10′ 5″	10′ 5″	10′ 5″	10′ 5″
Extreme width		6′ 2″	6′ 7″	7′ 5″	7′ 9″	8′ 6″	9′ 8″	10′ 2″	10′ 8″	11′ 5″	12′ 2″	12′ 10″	13′ 6″
Length on floor		6′ 2″	6′ 6″	7′ 1″	7′ 9″	7′ 9″	9′ 1″	9′ 1″	9′ 1″	9′ 1″	9′ 1″	9′ 1″	9′ 1″
Width on floor		4′ 11″	5′ 5″	5′ 10″	6′ 4″	6′ 11″	7′ 11″	8′ 5″	8′ 11″	9′ 5″	9′ 11″	10′ 5″	10′ 11″
Height to where grain enters		6′ 4″	6′ 10″	7′ 1″	8′ 2″	8′ 2″	8′ 5″	8′ 8″	8′ 11″	9′ 2″	9′ 5″	8′ 5″	8′ 5″
Height to center of drive pulley (fan shaft)		5′ 5″	5′ 8″	5′ 11″	6′ 5″	6′ 5″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″
Height to center of eccentric shaft		2′ 8″	2′ 8″	2′ 10″	3′ 2″	3′ 2″	2′ 7″	2′ 7″	2′ 7″	2′ 7″	2′ 7″	2′ 7″	2′ 7″
Speed	R. P. M. of fan (drive) shaft	550	550	500	500	500	500	525	550	575	600	500	500
	R. P. M. of eccentric shaft	575	550	550	550	550	525	525	500	500	500	500	500
Size of drive pulley		10″x5″	12″x5″	12″x6″	14″x6″	14″x7″	16″x7″	16″x7″	16″x7″	16″x8″	16″x8″	18″x8″	18″x8″
CAPACITY Bushels, per hour	Wheat—Fine screens	180	300	450	600	750	900	1050	1200	1350	1500	1650	1800
	Medium screens	300	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000
	Coarse screens	600	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
	Barley—Fine screens	150	250	350	500	650	800	900	1100	1250	1400	1550	1700
	Coarse screens	300	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000
	Corn or Oats—Coarse screens	450	750	1200	1500	2000	2500	3000	3500	4000	4500	5000	5500
Approximate shipping weight, pounds, Style "D"		2300	2800	3400	4000	4600	5400	6200	6800	7500	8300	9200	10000

SIZE OF FAN OUTLETS	4	5	6	7	8	9	10	11	12	13	14	15
Fan outlet openings, depth	13½″	14½″	15½″	16¼″	16¼″	19¼″	19¼″	19¼″	19¼″	19¼″		
Fan outlet openings, width	9″	10″	10½″	11″	12¼″	12¼″	12¼″	12¼″	13¼″	14¼″		
Total square inches for both fan outlets	244	290	326	358	398	472	472	472	510	548		



"MONITOR" WAREHOUSE AND ELEVATOR SEPARATOR

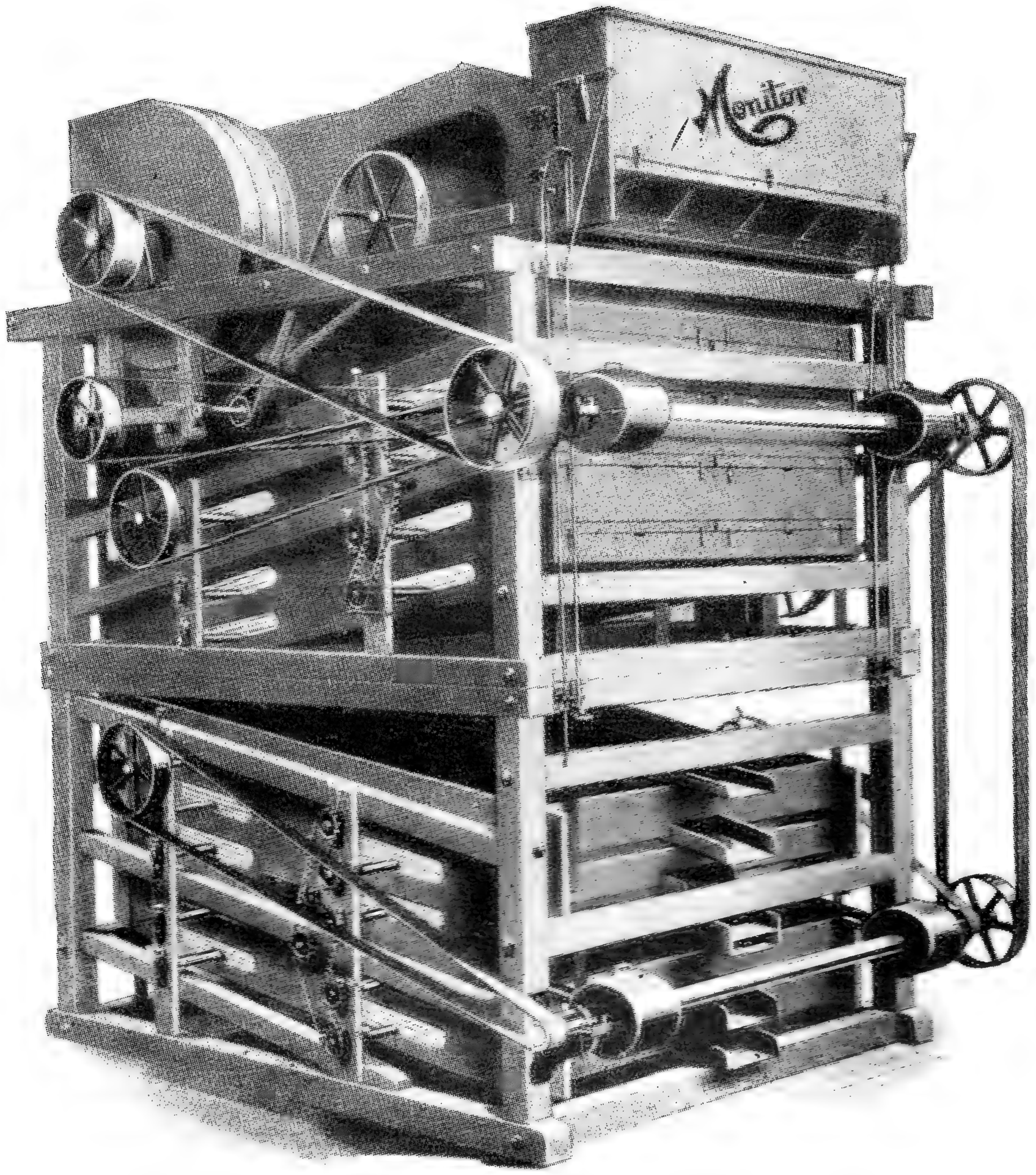
Compound (Self-Balancing) Receiving Cleaner

Wood Construction—Steel Covered

CONSISTENTLY perfect cleaning performance—that widely conceded best in air cleaning, separations (2) showing phenomenal definition—uniformity positively unequalled; screen separations (3) delivered with an unfailing trueness that profit and please to the utmost, under all conditions. Illustration is of our Style "B," "automatic"—America's Master Cleaner—thoroughly and expertly covered with heavy sheet steel to give the maximum of resistance to fire—pleasingly finished with a heavy coating of steel gray paint. Just as these superlatively smooth, quiet running, easily and positively controlled "Monitors" have outlasted years of the severest service in Elevators everywhere so have they regularly outcleaned and outeconomized every make of general-purpose, fire-proof Receiving Separators.

On opposite page we list several styles of equipment; the Model illustrated above is the Style "B," as explained—all are two-shoe (compound), self-balancing machines having three runs of screens and two independently controlled air separations. You can turn to pages 21, 23 and 25 respectively where full explanation of these machines' unmatchable equipment and superior work is described—all are identical in design, construction and in performance in respective alphabetical listings, except that these "fire-proof" machines have all woodwork entirely covered with steel. As pioneers in this type of construction our method of steel covering is a demonstrated success.

Read page 99.



"MONITOR" SCREENINGS SEPARATOR

Wood Construction—Steel Covered

ILLUSTRATING the largest of our three sizes of Screenings Separators—the Style "A," No. 9. Commencing with page 62 and including page 65 you will find the reasons for the increasing use in this and foreign countries of these heavy-profit-giving machines. For each of the three sizes illustrated, described and specifically listed as to equipment on the pages referred to, the same mention applies for this fire-proof construction—each in their respective sizes are identical except that the three models listed below have heavy, enduring covering of sheet steel for all woodwork—fire-resisting construction that is authoritatively endorsed. Finish is a heavy coating of steel gray paint.

Dimensions, speeds, capacities, etc., see tables pages 62, 64 and 65, for the sizes Nos. A-9, A-6 and A-3 respectively—shipping weights and list prices use table below.

SIZE NO.	9-A	6-A	3-A
Approximate shipping weight, pounds	12600	6300	3700

"MONITOR" WAREHOUSE AND ELEVATOR SEPARATOR

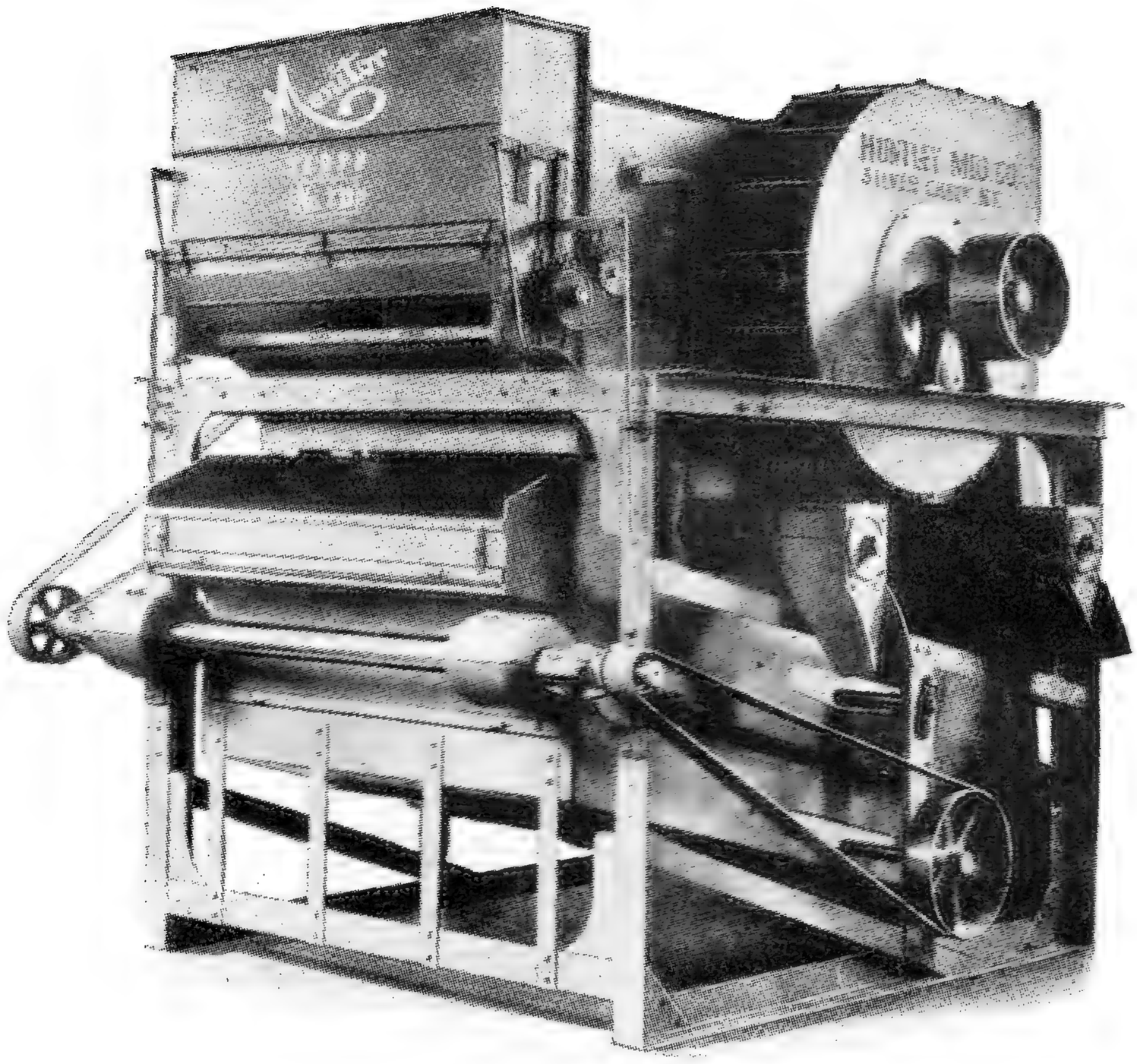
Compound (Self-Balancing) Receiving Cleaner. All Steel and Iron Construction

DIMENSIONS, CAPACITIES, PRICES, ETC. — **STYLES "B," "C," "Cc," "Ccc," "D," "Dd"**

SIZE NO.	4	5	6	7	8	9	10	11	12	13
Extreme height	7′ 1″	7′ 6″	7′ 10″	8′ 6″	8′ 6″	9′ 2″	9′ 2″	9′ 2″	9′ 2″	9′ 5″
Extreme length	6′ 11″	7′ 4″	8′ 0″	9′ 1″	9′ 1″	10′ 6″	10′ 6″	10′ 6″	10′ 6″	10′ 6″
Extreme width	6′ 2″	6′ 4″	7′ 2″	8′ 0″	8′ 6″	9′ 10″	10′ 4″	10′ 10″	11′ 7″	12′ 3″
Length on floor	5′ 4″	5′ 8″	6′ 2″	7′ 1″	7′ 1″	8′ 4″	8′ 4″	8′ 4″	8′ 4″	8′ 4″
Width on floor	4′ 5″	4′ 11″	5′ 4″	6′ 2″	6′ 8″	7′ 10″	8′ 4″	8′ 10″	9′ 4″	9′ 10″
Height to where grain enters	6′ 1″	6′ 7″	6′ 10″	8′ 2″	8′ 2″	8′ 5″	8′ 8″	8′ 11″	9′ 2″	9′ 5″
Height to center of drive pulley (fan shaft)	5′ 5″	5′ 8″	5′ 11″	6′ 5″	6′ 5″	6′ 9″	6′ 9″	6′ 9″	6′ 9″	6′ 9″
Height to center of eccentric shaft	2′ 6″	2′ 7″	2′ 8″	3′ 2″	3′ 2″	3′ 1″	3′ 1″	3′ 1″	3′ 1″	3′ 1″
Speed — R. P. M. of fan (drive) shaft	550	550	500	500	500	500	525	550	575	600
Speed — R. P. M. of eccentric shaft	575	550	550	550	550	525	525	500	500	500
Size of drive pulley	10″x5″	12″x5″	12″x6″	14″x6″	14″x7″	16″x7″	16″x7″	16″x7″	16″x8″	16″x8″
CAPACITY Bushels, per hour — Wheat—Fine screens	180	300	450	600	750	900	1050	1200	1350	1500
Wheat—Medium screens	300	500	750	1000	1250	1500	1750	2000	2250	2500
Wheat—Coarse screens	600	1000	1500	2000	2500	3000	3500	4000	4500	5000
Barley—Fine screens	150	250	350	500	650	800	900	1100	1250	1400
Barley—Coarse screens	300	500	750	1000	1250	1500	1750	2000	2250	2500
Corn or Oats—Coarse screens	450	750	1200	1500	2000	2500	3000	3500	4000	4500
Approximate shipping weight, pounds—Style "D"	2900	3300	3800	4800	5400	6400	7400	8500	9400	10000

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	4	5	6	7	8	9	10	11	12	13
Fan outlet openings, depth	13 3/8″	14 3/8″	15 3/8″	16 1/4″	16 1/4″	19 1/8″	19 1/8″	19 1/8″	19 1/8″	19 1/8″
Fan outlet openings, width	9 1/8″	10 1/8″	10 5/8″	11″	12 3/8″	12 3/8″	12 3/8″	12 3/8″	13 3/8″	14 3/8″
Total square inches for both fan outlets	247	291	336	357	402	473	473	473	510	549



"MONITOR" WAREHOUSE AND ELEVATOR SEPARATOR

Compound (Self-Balancing) Receiving Cleaner

All Steel and Iron Construction

OF all metal—for which some have a preference. If it *is* to be an "all-metal" Separator then surely the unequalled wearing and unmatchable cleaning qualities of these "Monitors" are deserving of earnest consideration. Employing the same basic principles for both air and screen cleaning work and closely following the lines of construction used in our well-known "standard" Separators, we have produced many of these "all iron and steel" machines with success that justifies the assertion—their equal has yet to be demonstrated.

For this type of construction the main supporting frames are of heavy angle iron, rigidly secured with solid reinforcing stay plates. Cast iron plates and heavy gauge sheet steel are used in combination for the fan casings and at various other points—this gives extreme strength. The two shoes are uniquely constructed of sheet steel formed over heavy angles and reinforced by our exclusively superior design of trusses. All moving and other parts bearing strain are secured with rivets driven to place by compressed air. At other points, where taken apart for shipment, bolted construction is used. The faultless materials and unhurried workmanship built into these machines—their ease of regulation and positive control are no less pronounced than their smooth running, light power, and low upkeep. The two wondrously uniform air and three unfailingly true screen separations are the highest of all standards—"Monitor" performance.

CONSTRUCTION—EQUIPMENT

Illustration above is of our Style "B," which is automatic; on page 108 we list several styles, alphabetically—*all* are two-shoe (self-balancing) drive, two-air and three-screen separation machines—their equipment otherwise varying as to sieve cleaners and eccentric drive. These "all-metal" Separators have same equipment under respective alphabetical listings as our "standard" machines, pages 21, 23 and 25—for specific mention of each type study "Construction—Equipment" of these "standard" machines referred to.

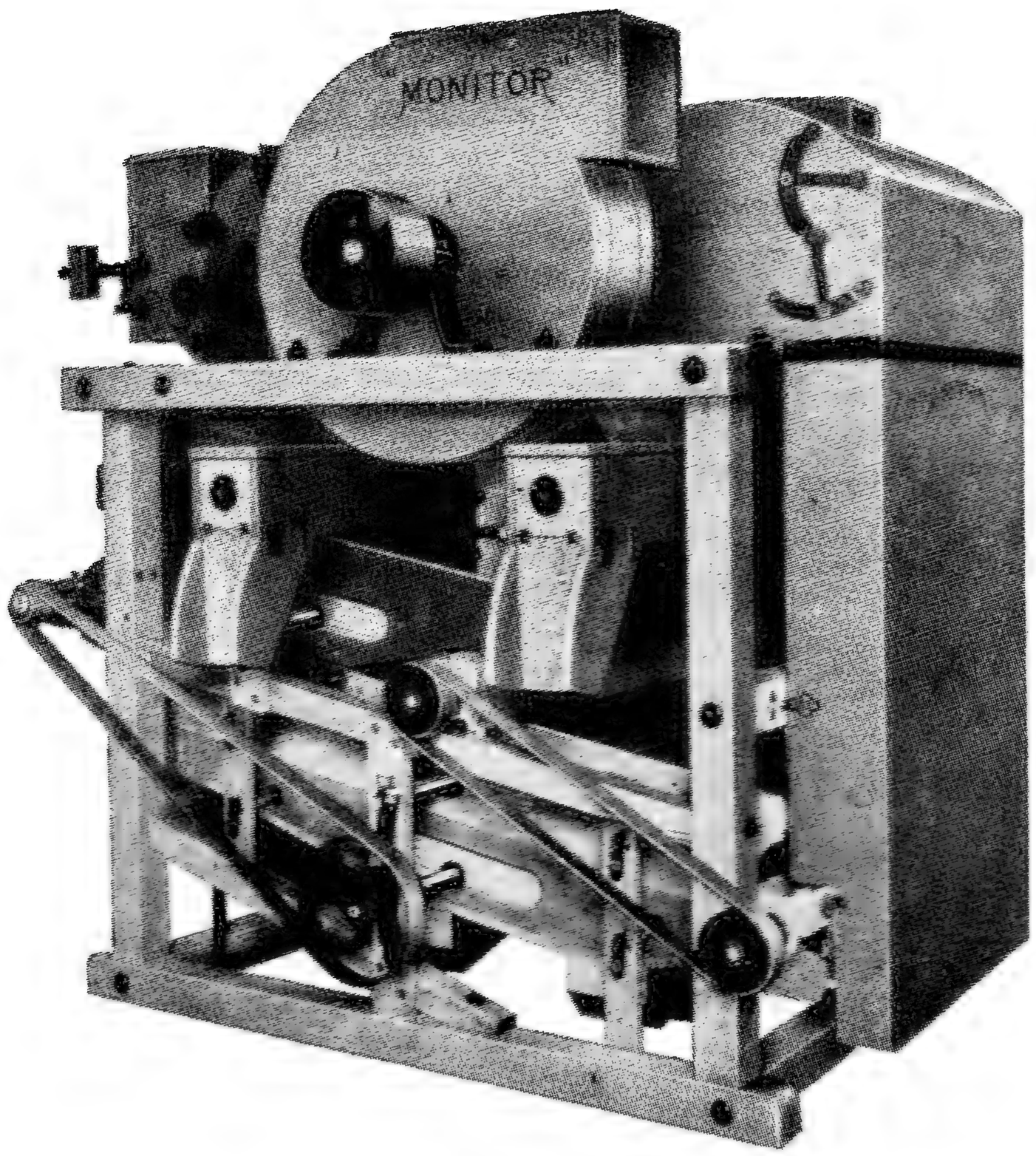
"MONITOR" CRACKED CORN GRADER, AUTOMATIC—STYLE "A"

DIMENSIONS, CAPACITIES, PRICES, ETC.

SIZE NO.	1	2	3	4	5	6	7	8	9	10	11
Extreme height	6′ 10″	6′ 10″	7′ 4″	7′ 4″	7′ 4″	8′ 7″	8′ 7″	8′ 7″	9′ 3″	9′ 3″	9′ 3″
Extreme length	6′ 5″	6′ 5″	7′ 2″	7′ 2″	7′ 2″	9′ 0″	9′ 0″	9′ 0″	10′ 5″	10′ 5″	10′ 5″
Extreme width	5′ 0″	5′ 6″	6′ 3″	6′ 9″	7′ 4″	8′ 7″	9′ 3″	10′ 0″	10′ 6″	11′ 0″	11′ 6″
Length on flcor	5′ 4″	5′ 4″	6′ 2″	6′ 2″	6′ 2″	7′ 9″	7′ 9″	7′ 9″	9′ 1″	9′ 1″	9′ 1″
Width on floor	3′ 6″	4′ 0″	4′ 8″	5′ 2″	5′ 8″	6′ 5″	6′ 11″	7′ 5″	7′ 11″	8′ 5″	8′ 11″
Height to where corn enters machine	6′ 4″	6′ 4″	6′ 9″	6′ 9″	6′ 9″	8′ 3″	8′ 7″	8′ 7″	8′ 9″	8′ 9″	8′ 9″
Height to center of drive pulley (fan shaft)	5′ 5″	5′ 5″	5′ 8″	5′ 8″	5′ 8″	6′ 8″	6′ 8″	6′ 8″	7′ 2″	7′ 2″	7′ 2″
Height to center of eccentric shaft	2′ 11″	2′ 11″	3′ 2″	3′ 2″	3′ 2″	3′ 8″	3′ 8″	3′ 8″	3′ 10″	3′ 10″	3′ 10″
Speed — R. P. M. of fan (drive) shaft	500	500	500	500	500	500	500	500	500	500	500
Speed — R. P. M. of eccentric shaft	500	500	500	500	500	500	500	500	500	500	500
Size of drive pulley	8″x5″	8″x5″	10″x5″	10″x5″	10″x6″	12″x6″	14″x6″	14″x7″	16″x7″	16″x7″	16″x7″
Capacity, bushels per hour	50	65	85	100	125	165	185	205	270	290	315
Approximate shipping weight, pounds	1800	2100	2600	3100	3600	4600	4900	5250	5800	6500	7200

SIZE OF FAN OUTLETS—INSIDE MEASURE

SIZE NO.	1	2	3	4	5	6	7	8	9	10	11
Fan openings, depth	11½″	11½″	12½″	12½″	12½″	14½″	14½″	14½″	16¼″	16¼″	16¼″
Fan openings, width	7 ″	7 ″	8 ″	9 ″	10 ″	10½″	11 ″	12¼″	12¼″	12¼″	12¼″
Total square inches for both fan outlets	161	161	200	225	250	304	319	355	398	398	398



"MONITOR" CRACKED CORN GRADER

Compound (Self-Balancing) Drive

AUTOMATIC - STYLE "A"

PRE-EMINENTLY the peer of all Cracked Corn Graders and Cleaners. Its work a revelation to all who see it perform. By virtue of the fact that no other machine has as perfect sieve equipment, and as much of it —as perfect air cleaning and as much of it as this "Monitor," we guarantee unmatchable uniformity of grade appearance and purity of finished stock. In a series of ten operations this machine produces three perfectly cleaned, sharp grades of cracked corn; while flour, meal, uncracked corn and coarse trash, dust and bran, and hulls are each removed separately. Sieve work is performed on four large-area sieves—these carried in two self-balancing shoes. Positive-action sieve cleaners keep sieves open and grading perfectly to full capacity continuously. Four suction legs, each *full width* of sieves—each grade is aspirated in a wide, thin stream—unmatchable purity results. Nothing as completely equipped, perfectly fitted and finished is offered by an American manufacturer.

Its Other Uses—with suitable sieves surpassingly fine grades of corn meal are produced. A superior outfit for use as a screenings cleaner, or for any regular or special grain cleaning or grading work.

CONSTRUCTION—EQUIPMENT

Shoes carrying screens are inter-reinforced construction——Automatic sieve cleaners under all screens, except "Scalper"—these provided with compression oilers for main bearings——Four screen runs, of interchangeable sections, easily withdrawn from front end; screen frames exceptionally heavy construction formed up in templets to insure free, true fit—covered with heavy metal and wire——Fan and eccentric shafts uncommonly heavy, best quality steel, accurately machine finished and—these operate in heavy-duty, dust-proof, self-oiling bearings—"chain" or "ring" type at regular price, illustrated page 10 (Ball bearings, for fan shaft, at extra price, see page 11) ——Shoes driven by four heavy-duty, adjustable, dust-proof, disc-oiler eccentrics, illustrated pages 6 and 7——Feed hopper has self-releasing feed gate and revolving force feeder——A novel spreading device feeds stock evenly full width of sieves——Fans are low speed, large diameter, one-piece type ——"Monitor" deep-area expansion chamber and Internal Compensating Air Regulators, see page 9——Frame and other details of construction—see "Heavy-Service Construction." page 5.



"MONITOR" MAGNETIC SEPARATOR

AUTOMATICALLY removing all particles of steel and iron (such as screws, nails, nuts, bolts, wire, etc.) from grain, this simple little machine works a big benefit to the owner. Injury, breakage, perhaps a shut-down often results from oversight in allowing pieces of iron or steel to remain in grain that is to be ground. Entirely automatic, occupying small space, no care other than oiling, and taking but one-quarter or less horse power, this machine is too valuable an outfit to be overlooked by anyone who grinds grain. Magnets used are our own make, of special analysis steel, tempered and charged by our perfected process—each magnet has a lifting strength of 21 pounds. Magnets are banked in rows in such a manner as to insure great permanency of strength. An adjustable feed gate and revolving force feeder are provided for the feed hopper, these controlling feed and distributing stream of grain evenly across entire magnetized surface; this surface is automatically cleaned by a wiper attached to endless carrier which has adjustable take-up. All metal is caught and held on the magnetized plate, to be carried off at intervals by the automatic wiper, and delivered into box at side of machine.

DIMENSIONS, CAPACITIES, PRICES, ETC.

SIZE NO.	255	256	257	258	259	260	261	262	263	264	265	265A	265B
Extreme height	2′ 2″	2′ 2″	2′ 2″	2′ 2″	2′ 2″	2′ 2″	2′ 2″	2′ 2″	2′ 2″	2′ 2″	2′ 2″	2′ 2″	2′ 2″
Extreme depth	1′ 7″	1′ 7″	1′ 7″	1′ 7″	1′ 7″	1′ 7″	1′ 7″	1′ 7″	1′ 7″	1′ 7″	1′ 7″	1′ 7″	1′ 7″
Extreme width	2′ 9″	3′ 1″	3′ 7″	4′ 1″	4′ 7″	5′ 1″	5′ 7″	6′ 1″	6′ 7″	7′ 1″	7′11″	8′ 9″	9′ 7″
Size drive pulley	6″x2″	6″x2″	6″x2″	7″x3″	7″x3″	7″x3″	7″x3″	7″x3″	8″x3″	8″x3″	8″x3″	8″x3″	9″x5″
R. P. M. of drive shaft	15	15	20	20	20	20	25	25	25	25	25	25	25
Capacity per hour in bushels	35	50	80	110	140	180	225	280	340	400	475	525	600
Shipping weight, lbs.	175	200	225	265	315	350	390	425	460	500	550	600	650

"MONITOR" PERFORATED METAL

WE are equipped for perforating sheet metals in almost any thickness of sheet and style of perforation. In our perforating department are late design perforating machines having every improvement known to machinery of this kind—our facilities for turning out perforated sheets are unsurpassed. On the following pages we illustrate some of our standard sizes —we have many more, our large assortment of dies covers practically everything a grain dealer could need. We turn out high-grade work only—a trial order will convince you.

HOW TO ORDER

First—state what *kind* of metal, and what *thickness* (gauge) is wanted. Advise whether *round*, *oval* or *oblong* is wanted and give *size* of perforation by referring to illustrations on following pages. Take a sheet of paper and draw diagram, referring to diagrams "A" and "B" below. If more than one size or style of sheet is wanted make *separate diagram for each*. Mark plainly on each diagram, *length* and *width* of sheet over-all, how much *blank margin* is wanted on *sides and ends*, and, important—indicate by an *arrow* (➳) *which way* grain travels over the metal.

DIAGRAM "A"

Showing style of punching ordinarily required for a screen which *is not* cleaned with sieve cleaners—blanks on ends and sides only.

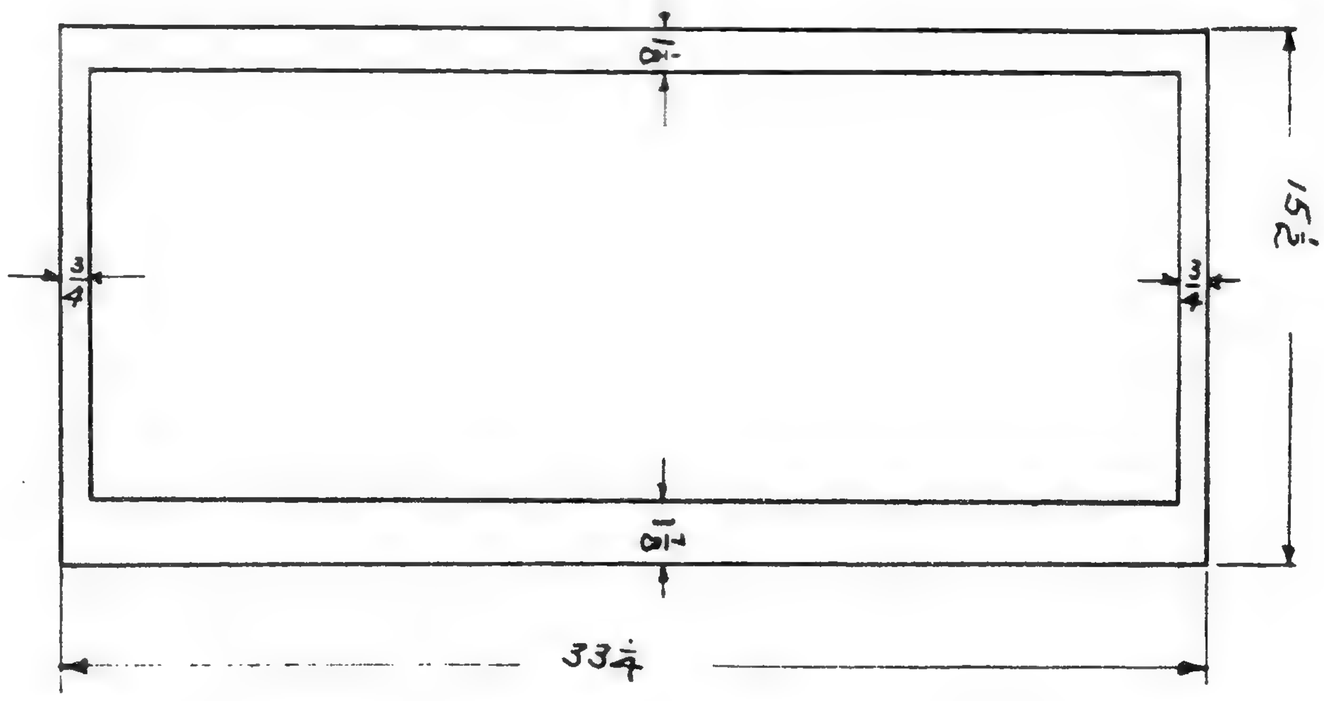
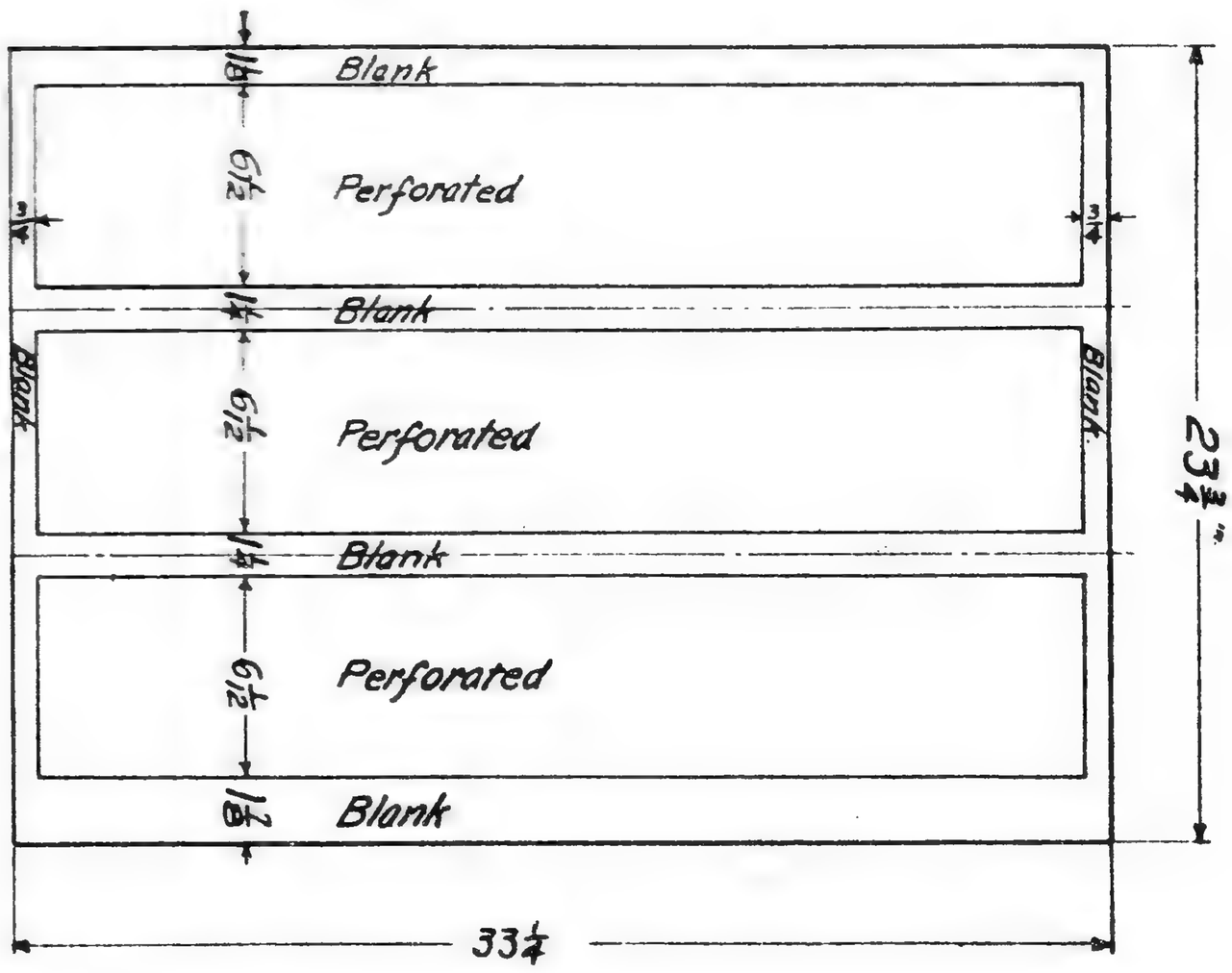


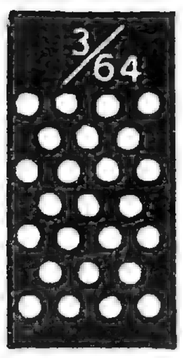
DIAGRAM "B"

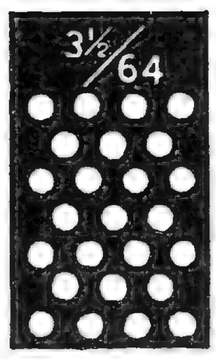
Illustrating how sheets are ordinarily perforated for a screen which has *automatic sieve cleaners*. Observe the $1\frac{1}{4}$" blanks extending across sheet which are not shown in diagram "A"—be sure to show such blanks if you require them.

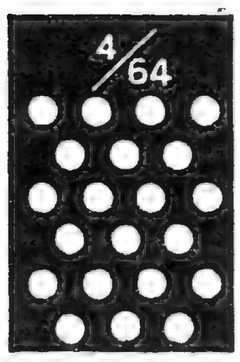


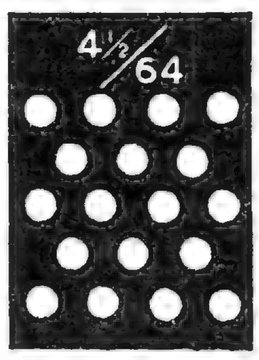
"MONITOR" PERFORATED METAL

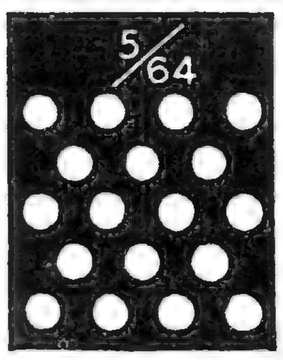
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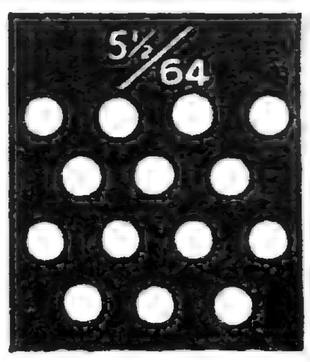


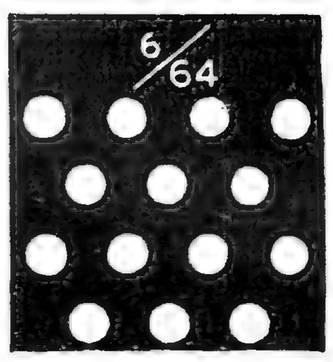


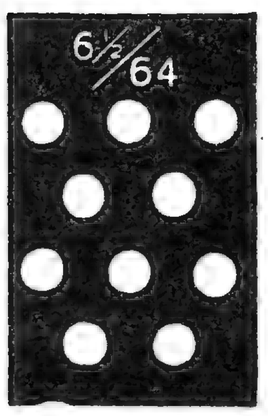


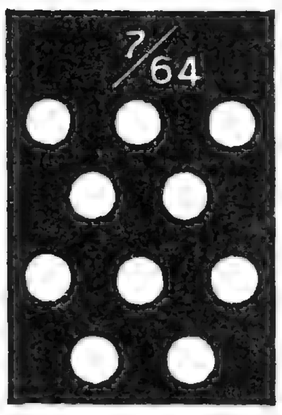


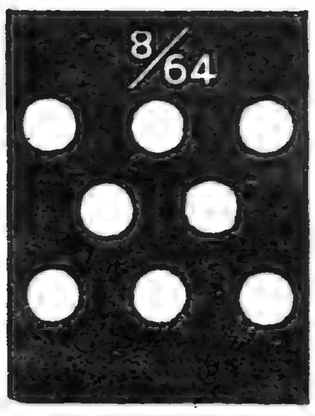


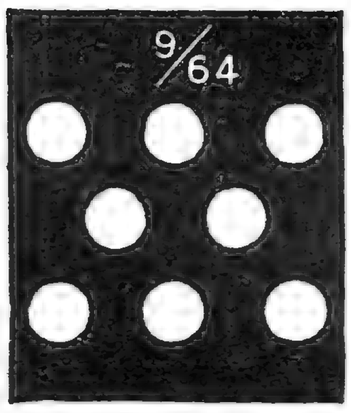




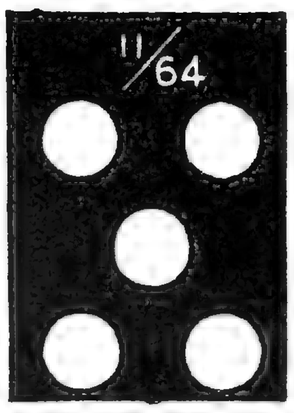




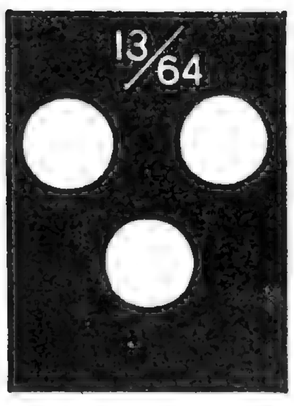


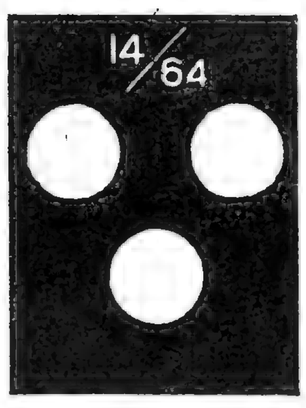


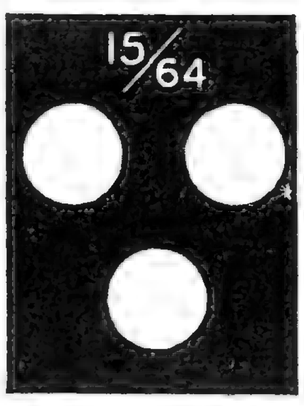


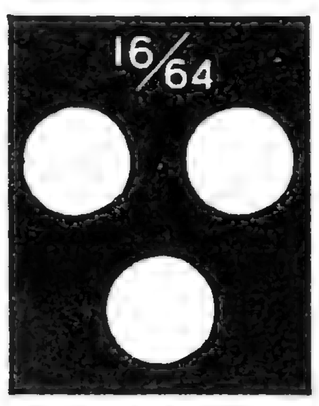


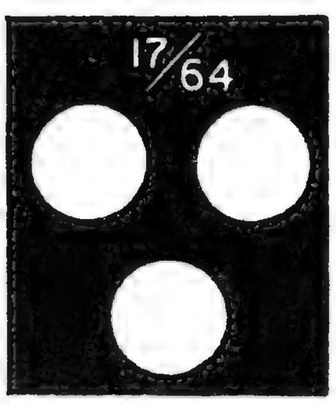


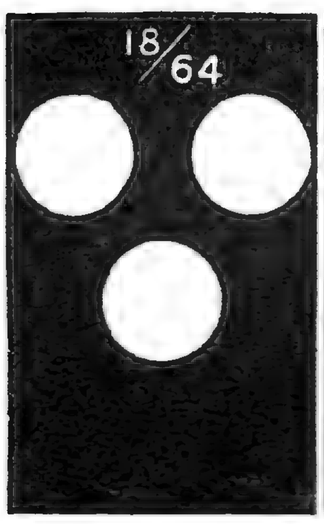


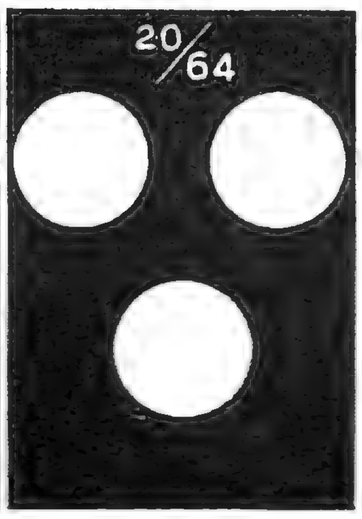




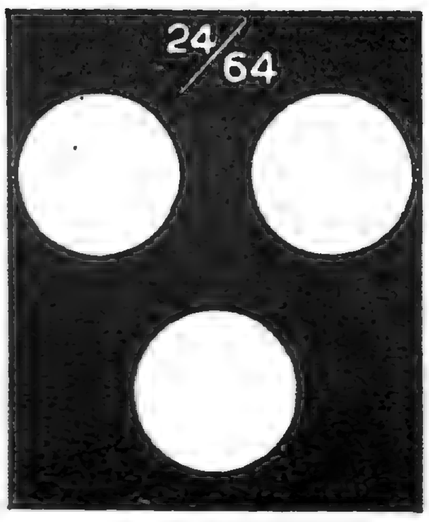


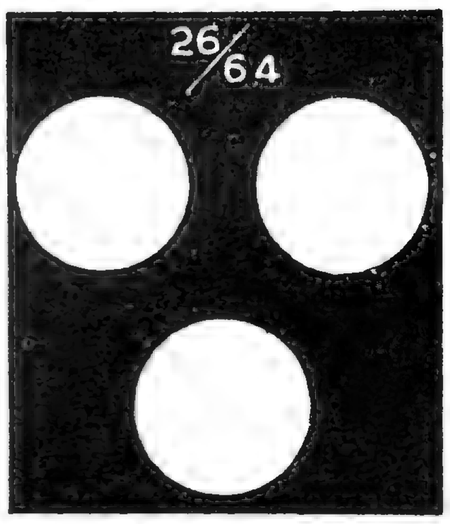


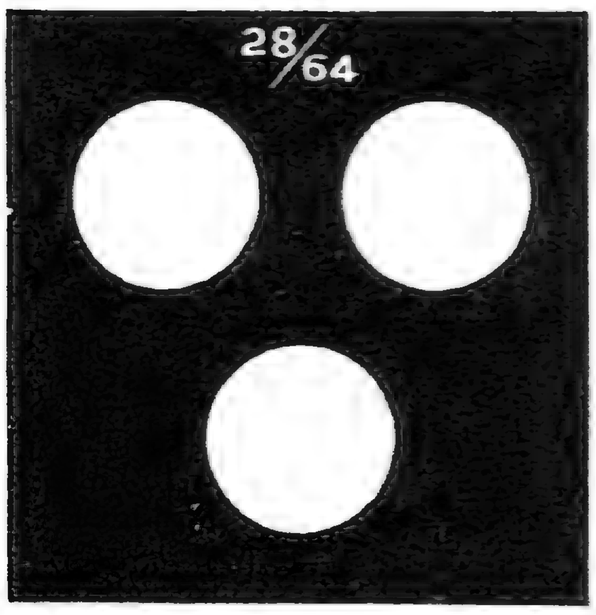


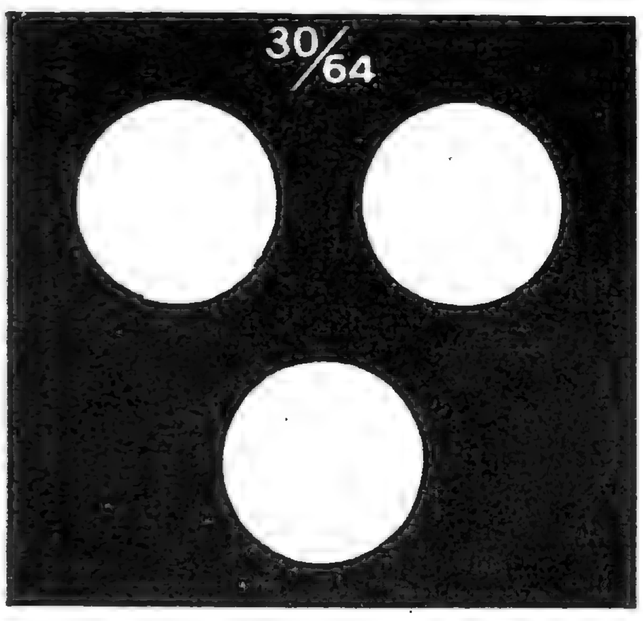


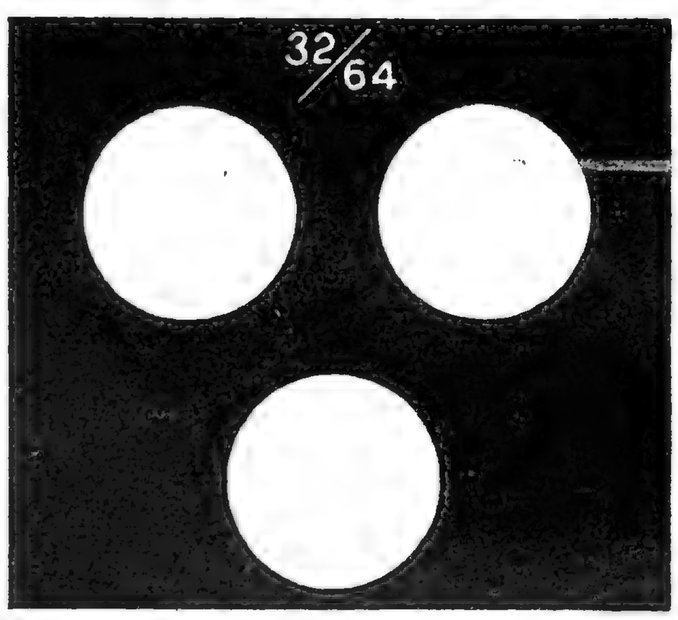


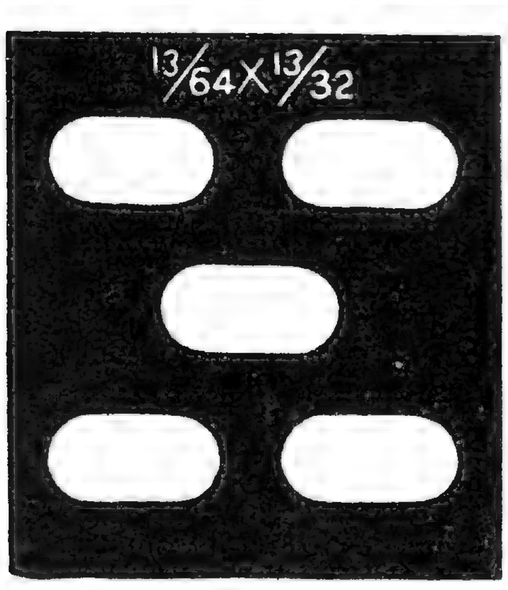


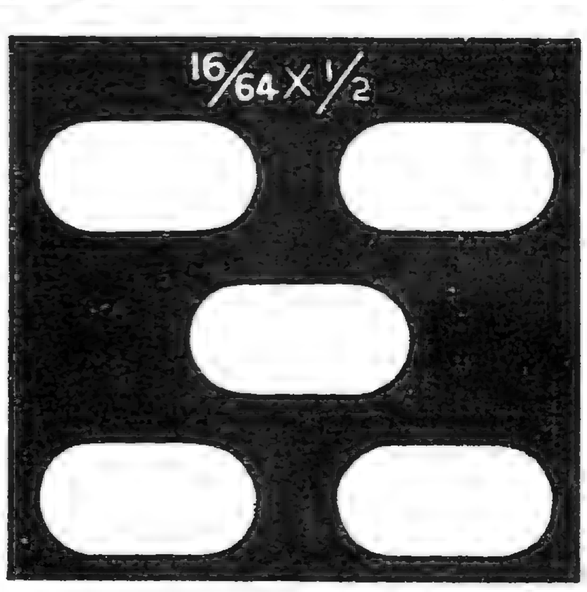


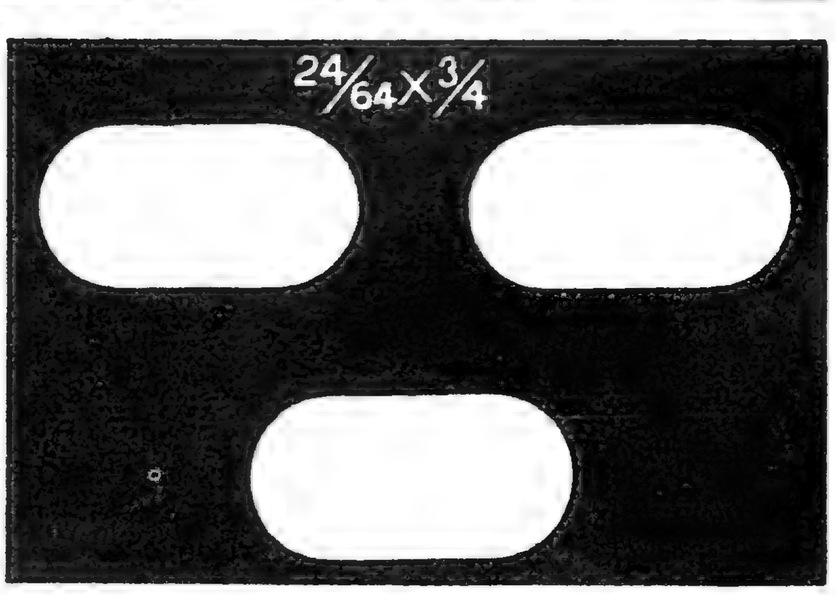






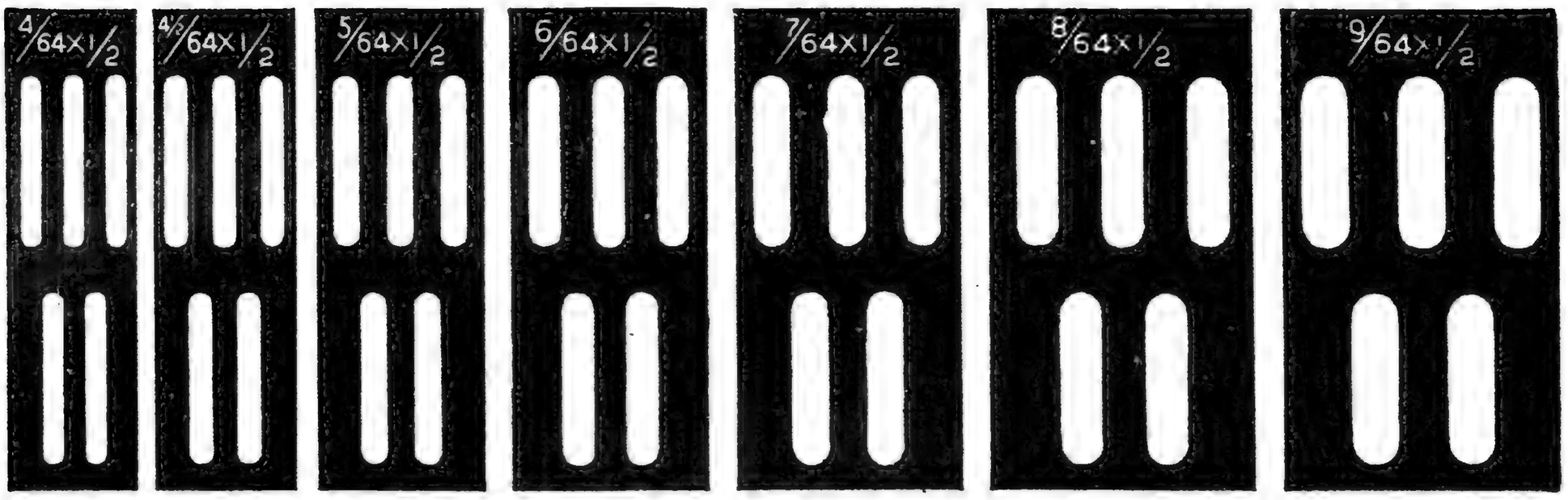


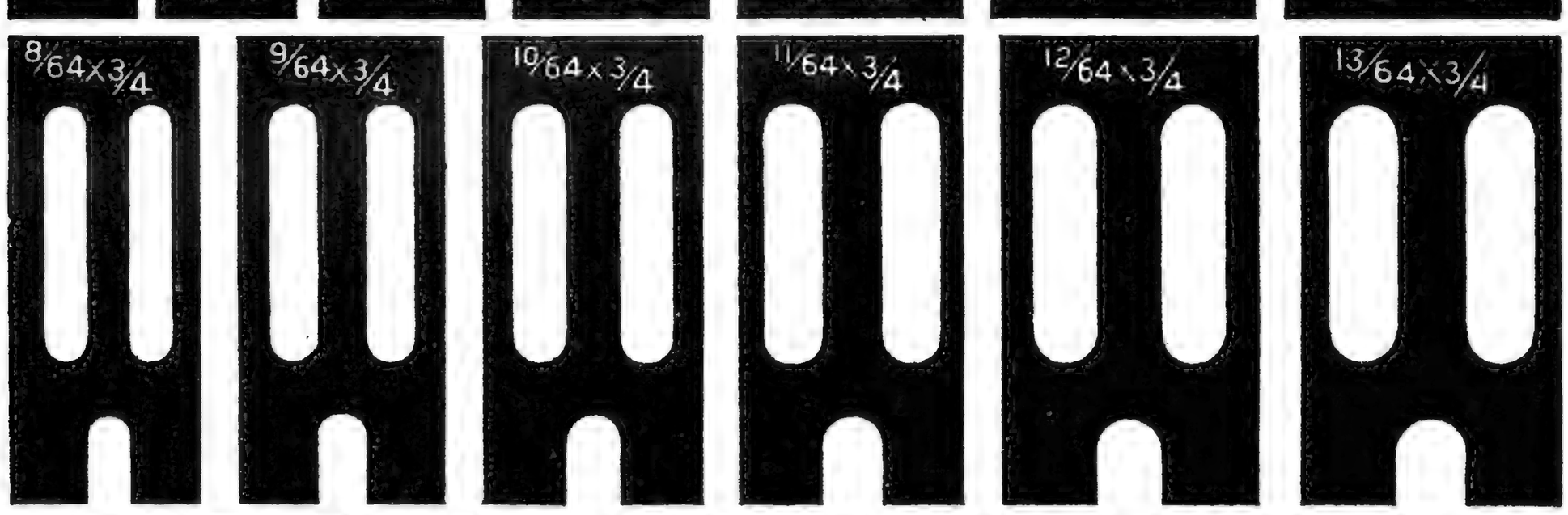


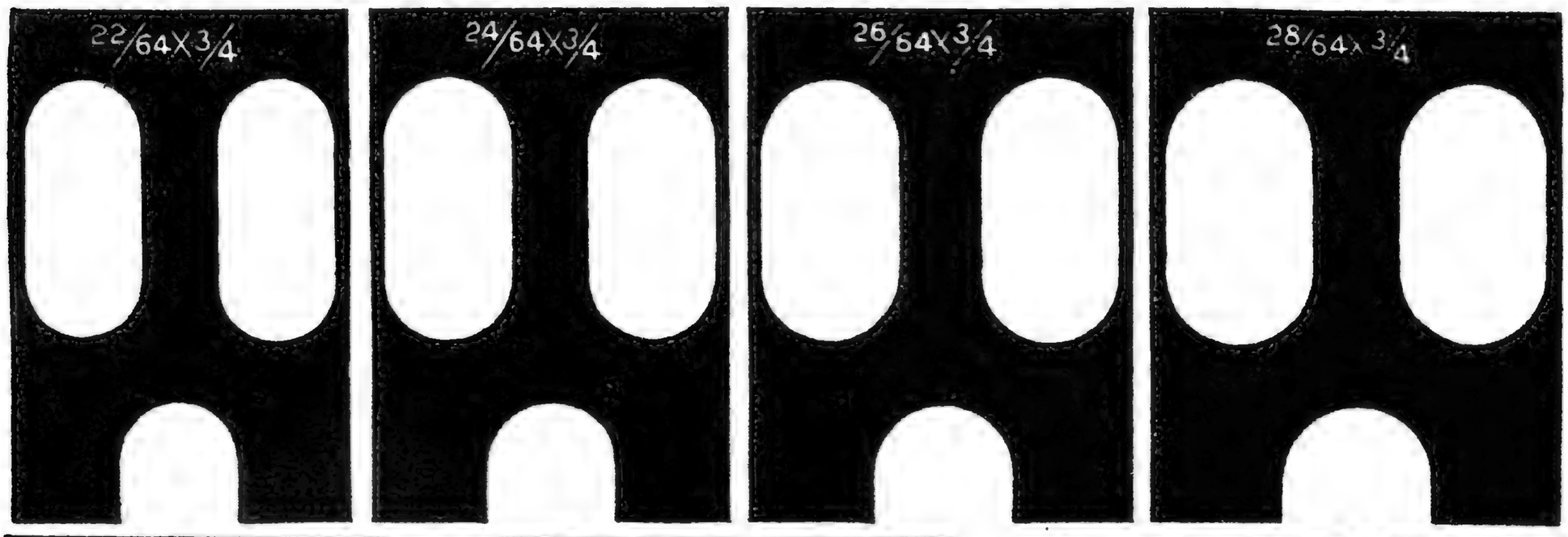


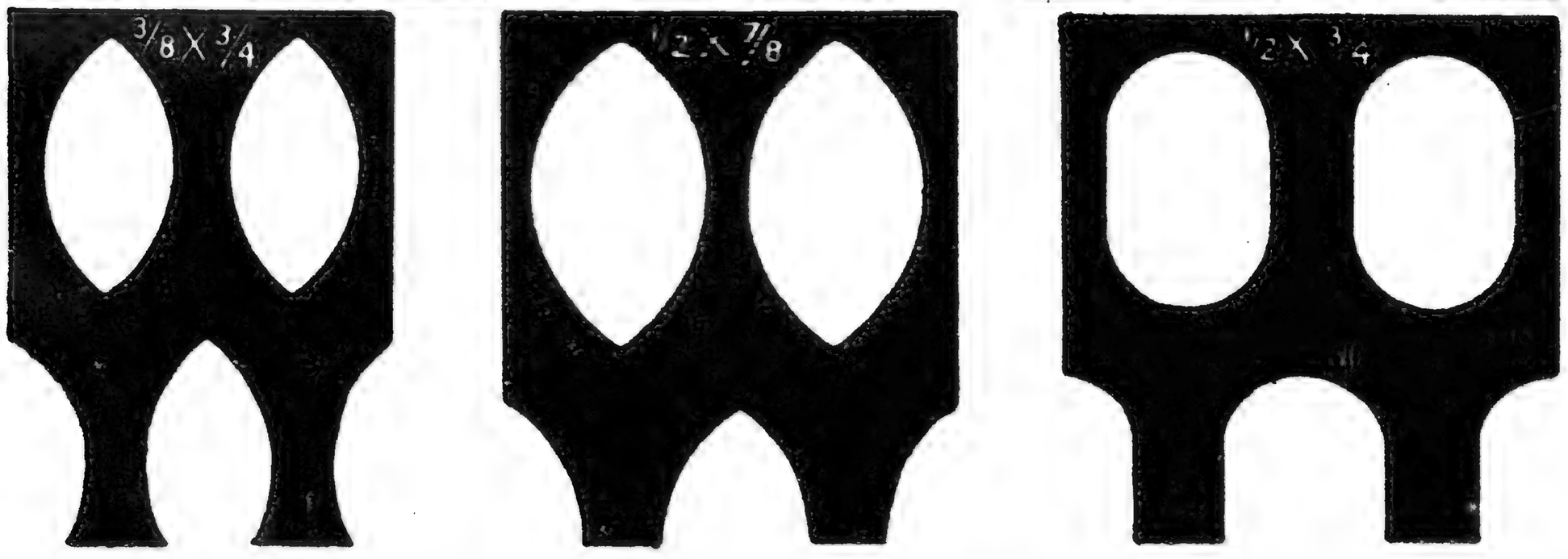
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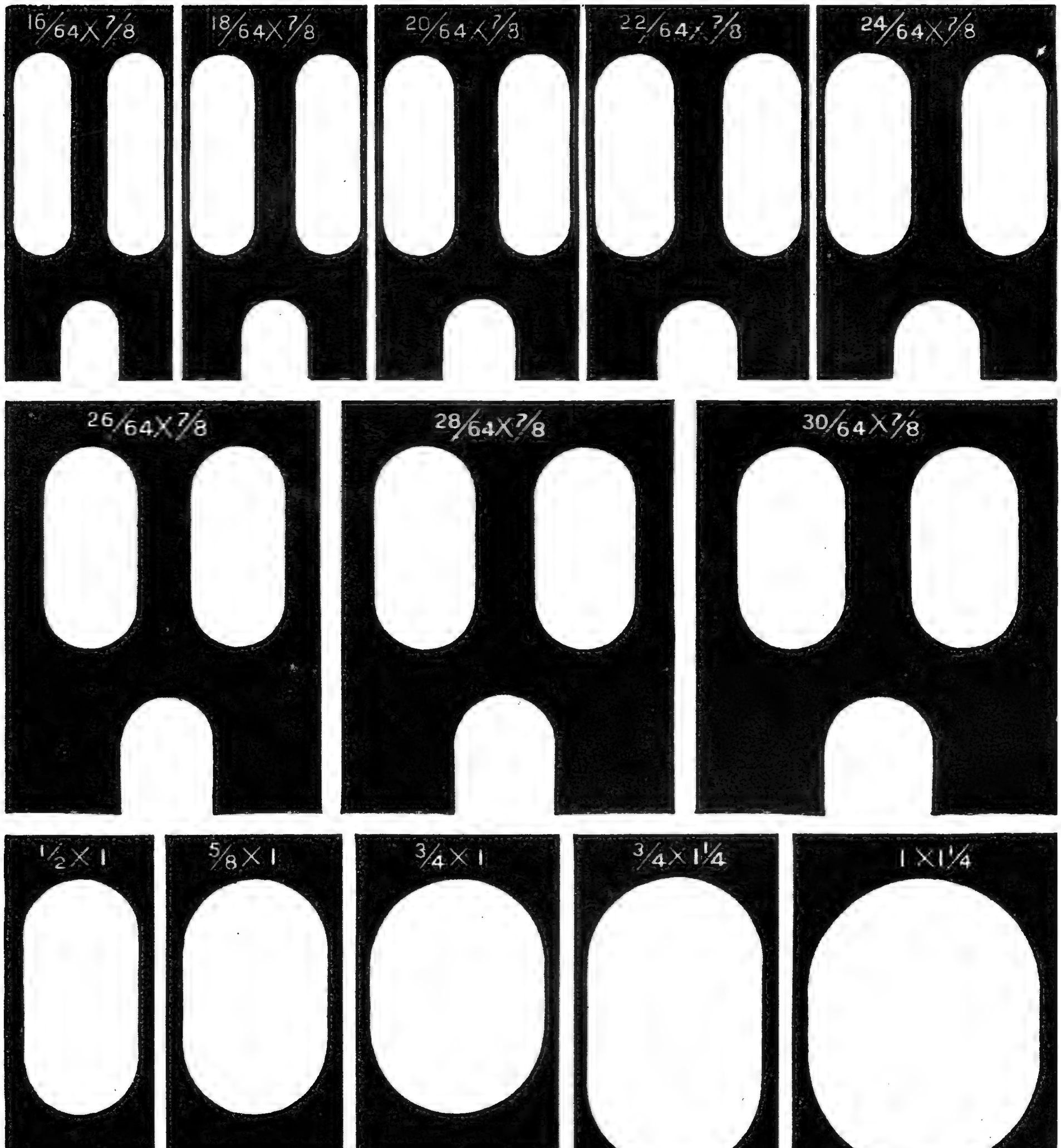






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